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OFFICIAL REGISTER OF HARVARD UNIVERSITY

VOL. XIX

FEBRUARY 24, 1922

NO. 5

REPORTS OF THE PRESIDENT AND THE TREASURER OF HARVARD COLLEGE

1920-21



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CAMBRIDGE, MASSACHUSETTS
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REPORTS OF THE
PRESIDENT AND THE TREASURER
OF HARVARD COLLEGE

1920-21



CAMBRIDGE
PUBLISHED BY THE UNIVERSITY
1922

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TREASURER'S STATEMENT

PRESIDENT'S REPORT

1920-21

TO THE BOARD OF OVERSEERS:—

The President of the University has the honor to submit the following report for the academic year 1920-21.

The report of last year began with a lament over the financial deficit caused by the general rise in prices and by the increases in salaries and expenses resulting therefrom. In spite of the magnificent gifts by the alumni to the Endowment Fund, the deficit for the year covered by that report was \$161,000.00, and a statement was made that this would be more than doubled for the year then current. The prophecy proved true, for the deficit in the academic year just passed has been \$338,305.32. The subscriptions to the Endowment Fund at Commencement in 1920 amounted to over \$12,000,000, of which \$6,210,000 had been actually received. At the close of the financial year covered by this report the subscriptions reached \$13,789,746.74, and the amount paid in \$8,751,501.11. Since nearly one half of the subscriptions are payable in annual instalments, over a period of five years, it will be some time before the whole amount is received.

Among the objects for which the Endowment Fund was raised, the first was to increase the salaries of the instructing staff. As explained in the last report, this was done in accordance with the advice of a committee composed mainly of representatives of the various departments of the University; and the increase, which was none too large, will consume the whole income from the Endowment Fund, even when all is paid in. To meet the growth in other expenses, due to the rise in prices, an increase in the tuition fees was suggested. This question was referred to a committee consisting of the President and Treasurer, two other members of the Corporation, the Deans of the College and the professional

schools, with Professors C. H. Moore, J. D. M. Ford, E. H. Warren, F. W. Peabody, and L. F. Schaub. The teaching staff of the University was thus represented. The committee reported a plan which, with the approval of the various Faculties concerned, the Governing Boards adopted. It provided that beginning with September, 1921, in the College, the Graduate School of Arts and Sciences, the Schools of Engineering, Architecture and Landscape Architecture and the Bussey Institution, the fees for all students, whether previously in the University or not, should be \$250. It provided further that the fee for a single course, instead of \$25 as heretofore, should be \$65, or in proportion to the fee charged for a full year's work. Hitherto an undergraduate who completed his college work in the normal four years paid \$800; whereas, if he completed it in three years, taking the same number of courses, he paid \$600 in annual fees and \$100 for the four additional courses needed to make up the number required for the degree. Thus he paid only \$700 in all. Now the student who remains four years will pay \$1000, and the three-year student \$1010. The fact that the men who go through college in three years take as many courses as the others is not the only reason why they should pay the same tuition fee. In all the departments, except those dealing with mathematics and natural science, there is a general final examination for graduation; and in preparing therefor special assistance, for which no fee is charged, is given to the student by means of Tutors or other counsellors at no small expense. It may be added that in the courses in natural science until 1913 a laboratory fee, which has now been abolished, was charged. The only undergraduates, beside the three-year men, affected by the increase of the fee for a single course are those who desire to take more courses than are required for graduation, and those who by failure in one course are obliged to take another. There is no reason why either of these classes of students should not pay in proportion to the ordinary tuition fees; and, in regard to the former, it may be observed that if they do not desire personal instruction they may attend the lectures in any course without charge. Hardship caused to students of high grade and

small means by the change in the annual tuition fee has been met by increasing scholarships by the same amount.

For three departments of the University the tuition fee has not been raised. Under the agreements for affiliation with us the neighboring theological schools charge their students the same fee as our Divinity School; and it seemed, therefore, inadvisable to increase our fee. The question is not of much importance because of the sad fact that a student rarely attends the School without a scholarship; and, in one form or another, the same thing is generally true of the theological schools of the country. The practice, which began about a century ago, of striving to secure students by giving them a free education is probably one of the principal reasons why, save in a few rich city parishes, the ministers of religion are grossly underpaid. Beginning their career as recipients of charity, to a degree that other professional students are not, they are placed from the outset in an unfortunate position which results in a still more unfortunate attitude of the community toward them. The condition, however, is one that no single school, or local group of schools, can remove.

The Law School and the School of Education were in a peculiar situation. Both had established their fees at \$200 for the year then current — the Law School by raising its fee from \$150, the School of Education because it had just opened its doors. In neither case did it seem wise to increase fees so recently announced. The only change in their case has been the restoration for students in all the Cambridge departments, except the School of Business Administration, of the annual fee of \$5 for medical attendance and the use of the Stillman Infirmary.

The School of Business Administration, which has little endowment, and had been meeting its expenses largely by the help of initial guarantees which were expiring, felt the need of increasing largely its revenues. If the instruction it provides is of high value the financial benefit to those who receive it should be large. The Faculty, therefore, proposed, and the Governing Boards agreed, to raise the tuition fee to \$400; provision being made by a loan fund for students

who could not otherwise afford to enter the School. The Medical and Dental Schools were also to some extent in a position peculiar to themselves; and, in fact, the fee in the Medical School was raised to \$300 for all students thereafter entering the School; that in the Dental School to \$200 for all students at the School in September, 1921.

The increase of the tuition fees does not seem to have affected the number of students in the various departments to which they apply. Certainly the numbers in all but one of these departments have increased. The figures at the end of October in 1920 and 1921 were as follows:

	1920	1921
College.....	2542	2681
Graduate School of Arts and Sciences.....	540	578
Engineering School.....	213	258
School of Architecture.....	58	73
School of Landscape Architecture.....		
School of Business Administration.....	444	468
Medical School.....	439	472
Dental School.....	234	205
Bussey Institution.....	17	21

The decrease in the Dental School is due to requiring for the first time one year of college work, instead of accepting for admission graduation from a high school. The change has been agreed upon by the leading dental schools of the country, and, while amply warranted by the growing recognition of the importance of dental medicine, it may be expected to result in a diminution in the students of these schools for some years. In neither the Medical School nor the School of Business Administration can the students increase materially, because both have limited the size of their entering classes. The former has for its entering class a limit of one hundred and twenty-five, the latter of three hundred. This last limit, despite the large number of applications, was not quite reached, because a few men whose applications had been accepted failed to come after others had been turned away. The policy of limiting numbers will be discussed later in this report.

The increase in the number of students in the College is a source of difficulty. Not in the matter of instruction, for

that can be, and is, provided, although some of the courses have grown very large. In this connection it may be noted that the former criticism of some of the populous courses as too easy, and as sometimes unruly, has ceased. They have all become more serious than they were a score of years ago, and the disturbances that took place in class-rooms at that time have long disappeared. For many years there has been no question about maintaining order. The chief difficulty caused by the size of the Freshman class lies in the lack of sufficient dormitories. The policy of housing as large a part of the students as possible in college dormitories is one whose importance has been felt by the colleges of the country; and many of them, especially the endowed institutions, have of late erected many such buildings, and have received large gifts for the purpose. We have outgrown ours. The Freshman Halls contain rooms for five hundred men, including proctors — enough when built for the entering class, except for the Freshmen who preferred to live at home; but now the newcomers have increased much beyond that limit. The number of Freshmen this year who do not live at home is about seven hundred. Some of them have found rooms in the neighborhood, taking their meals in the Halls, but many have been disappointed and feel that they are at a disadvantage in not entering upon their college life in intimate contact with their classmates. For the upper classmen also, and for professional students, there is a dearth of rooms, especially in University buildings where they are thrown together in that atmosphere of comradeship which adds greatly to the value of education in common. This is particularly needful in an institution surrounded by a city growing ever more densely crowded. There is no form of memorial more impressive and more enduring than a college dormitory.

The demand for rooms in the Freshman Halls has been made even greater than the increase in the number of students entering by examination would have rendered it, by a new method of classifying men coming from other colleges. In my last report attention was drawn to the rapid growth in the number of these men, and it was suggested that it

would be better if, instead of being treated as unclassified and therefore without membership in a class, they were at once assigned to the class in which they most nearly belong. This has been done; those who have not completed work equivalent to that of the first year here being treated provisionally as Freshmen; those who have completed as much as our first year's work, but not that of two years, being treated as Sophomores; those with two years' work or more as Juniors; while none are rated as Seniors. This has resulted in classifying students from other colleges as follows: Freshmen 107, Sophomores 78, Juniors 19. It may be observed that the total number of undergraduates in Harvard College coming from other colleges is 204, as against 283 last year. The diminution, which is due in part to dislike of a rating in a lower class than had been hoped, and in part to our refusal of applicants who had failed in any course elsewhere, is not a subject of regret. While we are hospitable to students coming from other colleges, it is not desirable that their numbers should be very large, and still less that they should come here without entering fully into the life of the College.

A member of the Faculty of Arts and Sciences returning from a journey through the West and Southwest was much impressed by what he had heard of the loss by the University of its hold upon other parts of the country; and, in fact, everyone who talks with the men from western cities receives the same impression. In order to prepare himself for a discussion of the subject in the Faculty he compiled statistics on the residence of Harvard students in the different departments of the University for a period of two-score years. In explaining diagrams exhibiting these figures he remarked that they proved the opposite of what he had expected. It appeared that in the College, and in substantially every department of the University, the proportion of students residing outside of New England had increased, and with growing rapidity in the last dozen years. It appeared also that, as compared with most other universities, the student body at Harvard is singularly widely distributed in its places of origin. The charts are to be published in the

Alumni Bulletin, and with the consent of the editor are reproduced as an appendix to this report.

The report of last year stated that the number of students in the Reserve Officers' Training Corps was not likely to increase considerably in the near future. Under the excellent direction of Major Goetz they have in fact doubled. There are, at time of writing, 204 men enrolled, of whom 125 are Freshmen. The Corps is an artillery unit; and while this is a more interesting arm of the service than the infantry, it involves expense. It requires a large number of horses, which are, indeed, supplied by the War Department, and for a couple of years were kept, by the kindness of the Massachusetts National Guard, in the State Armory across the river. But the National Guard now requires all the space in the Armory for its own horses, and the University has been compelled to build stables of its own. The obvious place, remote enough from dwelling houses, was on some part of Soldiers Field, if a site could be found that would not interfere with the play grounds. Now the most distant part of this Field was given to the University by Mr. Henry W. Longfellow. It was then a marsh, opposite his house, and he attached to his gift a provision restricting future buildings in terms understood to exclude stables. The ground has since been so changed in character, by filling creeks and covering much of the marsh, that the old landmarks have been largely obliterated. Nevertheless, it proved possible to find the old lines well enough to select a suitable site outside of the land he gave; and there stables for the horses, and quarters for the soldiers detailed to the Corps, have been built. The construction of these buildings is another illustration of our good fortune in the opportunities for sports and exercise, the more remarkable because the University is practically situated within a large city. Mr. Longfellow's gift, the purchase of some land adjoining, and the generosity and foresight of Major Henry L. Higginson have furnished the students with ample space for exercise of all kinds on land; while the raising of the river by the Charles River Dam has supplied abundant chance for rowing. At

one time last spring there were thirty-two eight-oared crews practising regularly.

The mention of Soldiers Field suggests a discussion of athletic sports. The Faculty, anxious about the amount of time consumed in the practice for intercollegiate games, appointed a committee to inquire into the matter. After a very careful investigation it reported that the practice, judged either by the time occupied or by the standing of the players, was not such as to interfere seriously with the academic work of men training for the teams; but that it did interfere with the work of the managers, and still more of the candidates, for such positions. The amount of time spent by them in this way was obviously excessive and unnecessary, and steps have been taken by the athletic authorities to reduce it in future.

A more difficult question is raised by the nature of the intercollegiate football games. The public interest, which was formerly concentrated on the Yale game in a greater degree than it is now, has extended to those with other colleges; and this year the attendance at the whole series has been larger than ever before. Although the severity of the injuries suffered, and especially the danger to life, have been materially diminished by the changes in the rules made a dozen years ago, football remains a rough and strenuous sport in which injuries are often received that impair the efficiency of the players for a couple of weeks, or more. In order, therefore, to keep them in good condition for the two principal games with Princeton and Yale at the close of the season it has been the habit to keep out of the games with other colleges some, or in many cases all, of the members of the first eleven, playing in fact a second team. This has been a source of complaint. To arrange a match with another college and then not put on the field our regular team, but an eleven composed of substitutes, has been criticized as unsportsmanly; and yet what else can be done if to play in these games is almost certain to cripple some members of our team before it has reached its maturity of training?

Criticism has been directed also to our refusal to play games off our own field except with Princeton and Yale.

Such a policy has been alleged to be exclusive if not arrogant. Based upon the same feeling is the demand that Harvard ought to play with more teams from other parts of the country; and at its last meeting the Associated Harvard Clubs passed a vote urging that our eleven should play with one of the great colleges of the Middle West, in alternate years at the Stadium and on the field of that college. If, like the professional baseball leagues, the object of the college football teams is to carry on a contest for national championship it is not quite clear how these demands can be proved unreasonable. But the Faculty, assuming that education is the prime object of the College, is of opinion that the members of the team, their substitutes, managers, etc., cannot be absent from Cambridge more than they are now without detriment to their studies.

The present policy in college football has not been the result of a deliberate plan. It has grown up by a consideration of the questions presented year by year, and is not based upon any principle recognized as imperative by faculties, alumni and spectators. The public interest in the sport, as a spectacle, has become general over the country, and has increased markedly since the war. It has tended to give excessive importance to college athletic contests. That intercollegiate matches have a distinct value in stimulating sports, which are the best form of physical exercise in youth, few people would be inclined to deny; but the single boat race between Oxford and Cambridge on the Thames, and the cricket match between those universities, supplemented in each case by a series of intramural contests, has been enough to stimulate unflagging interest in those sports among the students. Judging from the effect of the race at New London one may ask whether or not the same plan would be sufficient in football. The necessity of maintaining for this purpose a public spectacle attended by thousands of spectators every Saturday throughout the autumn is certainly not clear; and whether it ought to be maintained for any other object is a matter worth consideration. Like many other questions touching the direction of undergraduate life this is one that affects all American colleges, and it

would be well for faculties, administrators and governing bodies to consider afresh the proper place of public inter-collegiate athletic contests in the scheme of education.

For the condition in detail of the professional schools, and of the museums and other collections, the reader is referred to the reports of the Deans and Directors, which exhibit the wide range of activity in the University as a whole. From small beginnings it has now grown to be a vast and complex organism, and the mere administration of its expenditures has become increasingly difficult. Now that, in the gross, these have reached more than five million dollars a year, the functions of Comptroller and of Secretary to the Corporation have grown too extensive for any man to handle; and Mr. Francis W. Hunnewell, who has been invaluable as Comptroller for nine years and as a Secretary for eight, has felt obliged to give up the former position. We have been fortunate in securing as Comptroller Mr. Frederick S. Mead, who has already effected notable improvements in accounting and in methods of operation.

The Law School has again increased in size, its students now numbering almost one thousand. Yet by dividing into two sections under different professors the classes of the first year, and some of those of the second year, it has proved possible to conduct efficiently the traditional method of instruction. A reference to the charts in the Appendix will show to what an extent this School, like some of the others in the University, is now drawing its students from distant parts of the country, especially from the South.

The School of Engineering is showing a gradual and healthy growth. Subject to a prescription of certain courses preliminary to applied science, the Freshman year is taken in the College, and in fact the strictly technical subjects are mainly taken in the third and fourth years. The Freshman is treated as a student in the College, but may register either there or in the Engineering School. Since he may register in the College although he intends to pursue engineering, and still more in case he has not definitely made up his mind, the number of men registered in the Engineering School is not a complete indication of its actual growth.

Two changes have been made in its curriculum. One of these is the introduction in the midst of the studies in Cambridge of a period of work in an engineering establishment to give practical experience and observation. This plan has been tried with success elsewhere and appears to be showing good results here. The other innovation is a combination of engineering and business. Courses amounting to a year's work may be taken in the School of Business Administration, and in that case the combined curriculum covers five years. This prepares the student for executive work in which many men with an engineering training find their greatest opportunity for usefulness.

The School of Landscape Architecture has been doing excellent work, particularly in the development of city planning. The profession, although of growing importance, can hardly have a large membership; and hence the number of students cannot be expected to become large. Architects will always be more numerous, and our School of Architecture should grow in size; but the fact that it admits only college graduates as candidates for a degree, and that the value of the broad general education given in college is not yet fully appreciated by the public, impedes its growth. Nevertheless, the students in the School have increased this autumn, and we are looking forward to strengthening the School by the coming of a teacher of design who has distinguished himself in France. Jean Jacques Haffner, winner of the Prix de Rome at the Ecole des Beaux Arts in 1919, has been appointed Professor of Architecture, and will take up his duties at mid-years.

The School of Education has been prosperous in its first year, and fills a need long felt in this community. Last year it had 118 students. It has now 155; but, since this also is a graduate school, we must look not to its numbers, but to the quality of the standard it maintains. One of the greatest services such an institution can render is an investigation by scientific methods of actual results in education. The subject is in a very slight degree capable of experimentation, because one has no right, in order to ascertain their effect, to try upon children forms of training which are not believed

to be best for them. Knowledge must be obtained by the methods of those sciences that depend upon observation. There is abundant and accurate material for this in the records of schools, colleges and professional institutions, and of late years it has been studied, but as yet only in small part explored.

After deprecating in last year's report any branching out into new fields of work it may seem strange to announce the creation of a School of Public Health. But in fact it is not a new departure. It is the development in systematic form of work that has long been carried on. For years we have been conducting, in concert with the Massachusetts Institute of Technology, a School of Public Health; and in the Medical School, departments of Industrial Hygiene, of Tropical Diseases and others germane to this general field. The Rockefeller Foundation suggested to us last spring that these agencies should be combined in one School, to be organized under a distinct Faculty while retaining an intimate relation with the Faculty of Medicine. The Foundation proposed, if this were done, to assist in developing the School. The suggestion was in the direction of expanding what we have been doing, and was accepted gladly. The sums of money now expended on the departments to be incorporated in the School represent the income on a capital of more than three million dollars. To this the Foundation has agreed to add over a million and a half, and eventually half a million more, on condition that the University contributes the income on an additional million. A considerable part of this can be appropriated from the income of the DeLamar bequest. The School will have for its object both instruction and research in the field of public health, and its courses will be open freely to students in the Medical School. In fact, some of the courses in each will, no doubt, form a part of the regular curriculum in the other; for many of the subjects dealt with are of necessity common to both Schools, neither of which would be complete without a close association with the other. To maintain constant harmony, Dr. Edsall, the Dean of the Medical School, will also be the Dean of the School of Public Health, while many of the professors

will be members of both Faculties. The plans for the organization of the School are now under consideration by a committee composed of future members of its staff.

The limitation of the number of students in the Medical School and the School of Business Administration has already been noted. In the latter case it is intended to be temporary until such time as the increase in the instructing staff and the provision of a building of its own make enlargement possible. For a type of education largely novel there is no reason to regret that expansion is for the moment impeded. In the Medical School also it may be hoped that the present limit of 125 students in the first-year class is temporary. Nevertheless, it is a policy adopted deliberately by many of the best medical schools of the country in the belief that an increase in numbers would involve less careful instruction of the individual student. The question is not a simple one to be decided on abstract principles, and it is likely to be more insistent in the future than it has been hitherto. Even in some of the colleges the rapid growth in numbers has brought the limitation of admissions prominently forward. Institutions for higher education, whether maintained at public expense or by private endowment, exist not for their own benefit, but for the public service, and owe a duty to the community. They are bound to receive as many students as they can educate effectively. To balance a closer attention to the few against somewhat less care bestowed upon a larger number is not an easy problem. It involves the important question of the selective function of education. If the smaller number are admitted the weaker students among them can by more individual instruction be enabled to attain the standard required for graduation. If the larger number are received the students with greater natural ability are not likely to suffer as much as those with less ability, and many of the latter will be eliminated in the process. No doubt where the numbers are limited an attempt is made to admit only those applicants most competent to profit by the instruction. This is done in certain professional schools. Admission, for example, to the *Ecole Centrale* and *Ecole des Beaux Arts* at Paris is obtained by a rigid competitive ex-

amination; and that is possible where, as in France, the schools throughout the country are so nearly on the same level that an examination of this kind is a fair test of proficiency. But it would not be a fair test in this country, except to the extent that it eliminates those distinctly unfit for the work they will be called upon to do. This last object is a sufficient reason for admission examinations to the colleges that retain them, and to us it seems to be justified. But any further limitation by examination or otherwise must be in large measure arbitrary, and therefore objectionable if it can be avoided. Whether it can be avoided or not is a question that may in several directions force itself upon our institutions of higher learning, and requires very careful consideration.

In the medical schools there is another question involved. The cost of all education has risen largely, and in the case of medical schools it has in recent years become prodigious. This is no doubt due in part to the great extension of medical knowledge and the number of subjects with which practitioners must have some acquaintance, many of them such as can be learned only by careful and prolonged observation in the laboratories and clinics. Yet the cost has reached a point where we must ask ourselves how much can properly be spent on medical education, and how much a community can afford to pay for it. We ought to inquire whether by improved methods the vast equipments of medical schools and hospitals cannot be used to better advantage than they are now, and thereby students who now go to less highly developed schools be enabled to obtain the benefit of those schools which are more fully equipped.

The School of Business Administration has developed systematically the plan of teaching by means of problems. The aims and merits of this method are discussed fully in the report of Dean Donham, and the progress in preparing case books of business problems is therein described. The plan suggests interesting questions touching objects and methods in education.

There are many such objects which persist throughout the whole course of teaching from infancy to the professional

school. Without venturing to touch upon the vexed question of the extent to which acquired capacities can be transferred from one subject to another, and without purporting to be exhaustive, one may mention among the specific objects of education in any given field or at any given level: the imparting of information; the training of memory; the training of observation, perception, discrimination and taste; training the power of analysis and synthesis; and training the art of expression. All these qualities can be developed by various processes, of which we have far too little exact knowledge; and more than one of them is in fact stimulated by almost any method of teaching. Important, indeed necessary, as all of them are there is no quality among them more valuable than that of analysis and synthesis, that is the capacity to sift from a number of facts or ideas those which are essential to the matter in hand, to discover their relation to one another, and thus disclose their significance. This capacity is of vital consequence in the domain of abstract thought and of pure science, and not less in the conduct of practical affairs. But it is one of the most difficult objects to attain, and like all others it is acquired mainly by practice. We learn to do by doing. Yet it would appear to have received until recent years less consideration in American study of education than it deserves. It would seem also that it can be effectively cultivated throughout the whole course of systematic training from the beginning to the end. If in what follows reference is made only to what is done here, it is not that similar methods are not pursued elsewhere, but that one must seek examples in the region with which he is most familiar.

For half a century, under the name of the case system, devised by Professor Langdell, the practice of presenting problems to be solved by discussion between the instructor and student has been applied in our Law School as the chief method of teaching. The problems are presented in the form of actual cases that have been decided in court; and these, selected and arranged in the order required to bring out the successive points in the subject matter of the course, are printed in case books, so that before the class meets the

students may have read those that will come up for consideration. The discussion, keen and eager, conducted by a process of trial and error with many false starts on the part of the students, evolves the principle which the instructor designed to bring out. It is not a quick method of imparting the principles and rules of law. Ground can be covered much more rapidly by lectures or by reading text books, but this gives nothing like the same ability to deal with the kind of problem that confronts the lawyer in his practice. Nor do lectures or textbooks give the same intellectual stimulus. The vehemence with which students, meeting in their rooms, at meals, or on street corners, discuss actual or hypothetical cases is the glory of our Law School and accounts for much of its attraction and success. The case method does not appear to develop in a marked degree the imaginative quality that makes the original jurist; but it forms the habit and capacity of analysis and synthesis as nothing else does. Its value has been shown by the kind of practicing lawyers it has produced, by the application for our students on the part of legal firms, and by the spreading of the system throughout the better law schools of the country.

This is the method that has been adopted in a systematic form in the School of Business Administration, where the instruction has more and more taken the form of problems to be discussed and solved by the students under the guidance of the instructor. It is deemed the best preparation for active business life, because the decision of questions by the banker, the manufacturer, the merchant or the transporter consists in discerning the essential elements in a situation and applying to them the principles of organization and of trade. His most important work consists of solving problems, and for this he must have the faculty of rapid analysis and synthesis.

The facts required to present a problem to a student must be within his reach. Those needed for a point of law are neither numerous nor complex, and can be set forth in a comparatively brief statement of the case, often in short pleadings. In business problems it is usually much more

difficult to state the facts concisely, but it has been found possible to do so in a space short enough for the purpose. Books of problems are, therefore, being prepared and printed as rapidly as possible. Collecting, arranging, and printing these problems is expensive, and the more difficult owing to the small endowment of the School. The problems are taken in the main from actual experience, and are often supplied by business men who are now dealing with them or have recently done so, the names and circumstances being so concealed as to prevent identification.

To some extent a corresponding method of study is used under the Faculty of Arts and Sciences where the subject matter does not lend itself to short problems easily stated and quickly solved. For many years it has been the practice in the more advanced courses in the College and the Graduate School to supplement the lectures and reading by giving out topics for investigation and report by the students. These are largely in the nature of problems, requiring analytic and constructive thought, as well as industry and discrimination in collecting the material. Such topics, if wisely selected, have the added merit of stimulating interest, for a person at any age is dull indeed who is not interested in solving a problem on which he is at work. In fact an undergraduate not infrequently derives his first real intellectual appetite from an investigation for a report of this kind. In history the practice of giving out subjects for reports was begun by Henry Adams when he was Professor in the seventies.

The suggestion has already been made that the method of teaching by problems can be effectively applied throughout the whole course of education from the beginning to the end. But the difficulty in framing problems such that the information required for their solution is within the grasp of the pupil is much greater in childhood than in youth; and, therefore, in the elementary and secondary school a child has not usually the knowledge required for a solution of problems in history or economics, in literature or in most of the natural sciences. But there are subjects within his range. To the writer it has seemed that, quite apart from

the literary heritage of the classics whose value to the student comes only after struggling with the language, one of the chief merits of the old school regimen of Latin, Greek and mathematics lay in its constant presentation of problems that needed no greater knowledge than the child possessed. Mathematics is, of course, essentially a series of problems, beginning with arithmetic and running at school through algebra, geometry and sometimes trigonometry. In fact it is almost impossible to teach mathematics except by the problem method. The same thing is true in the study of the ancient languages. The boy is confronted by a Latin sentence to be translated. He has to determine whether a word is a noun, a verb, or what other part of speech; if a noun, in what number, case and gender; if a verb, in what mood, tense and person. Then he has to consider what the appropriate part of the word should be, and look that up in the lexicon. From these words, whose sense and whose place in the syntax he had discovered, he must construct a sentence with a rational meaning. The whole process is that of solving puzzles or problems, at first by making the boy discover the meaning of a few words and put them together in simple sentences, but gradually involving more complex forms of speech, and leading up to the interpretation of the thoughts of authors of greater and greater difficulty; yet all the while within the scope of his command of facts. It has been said that the process, good for those who take a real interest in it, is not much use for others. But the experience of one who at that time was not much interested in study leads him to believe that almost all fairly intelligent boys derive no small profit from these efforts at translation; although it may be admitted that the profit is greater to those who have, or can be given, a purpose for their effort. Latin grammar learned by rote in the old-fashioned way has seemed to the writer of little or no educational value. Like the multiplication table, the grammar with its rules and lists of exceptions is doubtless necessary as a tool, and furnishes part of the difficulties encountered in solving the problems presented by translation. But it would seem to be the series of problems themselves that are of use in training the mind.

Modern languages can, of course, be used for this purpose, instead of the classics, but their structure is less well adapted therefor, and the authors read less adapted to stimulate immature minds. Of the other modern subjects taught in the schools physics is the only one that lends itself readily to teaching by problems. For various reasons many of them are highly important; some of them for the knowledge with which children should be equipped, others as tools for future use. But there is a danger of failing to cultivate the habit of independent analysis and synthesis, of solving without assistance problems simple enough for the elements to be grasped, yet difficult enough to require personal effort. This danger has been the greater by reason of the prevalence of direct instruction by the teacher, as compared with the earlier practice where study by oneself played a larger part. Men whose recollections of school go back fifty years will remember that in those days the lesson was set by the teacher and worked out by the pupil himself; the class reciting to the teacher who corrected mistakes and gave explanations, but imparted little direct information. The recitation was more in the nature of an examination than of a lecture or demonstration, and the whole process had more the character of self-education than it has today. In later years mental nourishment was furnished to the pupil in a more predigested form, requiring less effort for assimilation than formerly. To change the metaphor, children were given their intellectual experience by seeing the country in an automobile instead of walking on their feet. The distance covered could be greater, but there is a doubt whether their muscles are as much developed by being carried as by exercise, and college teachers sometimes complain that Freshmen are deficient in the capacity to think for themselves.

For the less vigorous minds direct instruction has advantages. Fewer of them fall by the wayside; but for the more active-minded there is something lost. The selective function of education, the sifting out of those who can go farthest, is not so well performed where the pupils depend less on their own exertions. There are many ways of reaching a desired result, and in education there are many things that

ought to be done without leaving something not less important undone; but apart from dogmatism one may deprecate the extent to which a neo-herbartian philosophy spread an impression that the value of instruction is in proportion to the smallness of the effort on the part of the pupil.

In speaking of these things it is only right to mention the project method of teaching developed in very recent years. The primary object is to awaken interest in the subject matter by directing the attention of the pupils to an inquiry or an undertaking which they can help to work out as they proceed, which gives them a purpose for their learning and a use for what they acquire. It involves a problem, or series of problems, which they are engaged in solving, and is in fact an adaptation of the problem method of teaching. No doubt it stimulates an active interest in a larger proportion of the children than such work as translation from an ancient tongue, but the latter has the merit of inevitably presenting a constant series of problems in the course of the study, and a subject that is inherently of a character to require the solution of problems possesses a superiority for teaching purposes. In the project method they grow out of the subject but are not an inherent part of it; and they therefore depend more upon the skill of the teacher. That method is excellent and the object of these remarks is by no means to argue that the old is better, but merely to suggest that the classical curriculum involved a process of training which many modern educators have overlooked, and which is in fact more in accord with the latest tendencies of educational thought than they have been aware.

Connected with direct instruction in school seems to be the aversion of many teachers, especially in the West, to examinations. So far as these are not a test of memory, they involve in some form the solving of problems — a practice to which the pupils are not accustomed, and in which accordingly they do not appear at their best. If they are in the habit of absorbing rather than giving forth, this comes hard. Teachers often feel that examinations are needless because they are aware how much knowledge the pupil pos-

sesses, since they know what has been imparted to him. But how much has been poured into a bucket is a poor measure of what it contains if it leaks, and children's minds always leak, one never knows how much. Many teachers regard examinations not only as needless, but as a sort of indictment of the pupil, to be used only in case there is reasonable ground for believing him deficient; whereas examinations not only furnish the teacher with an accurate measure of what the pupil knows and how far he can use his knowledge, but, if properly used, are an essential part of the educational process. They should test not only memory, but still more the capacity to apply the knowledge possessed. In other words, they should be to a very large extent in the nature of problems. If we learn to do by doing, then there is for the pupil no better way of learning than to be set occasionally to do things without assistance, in competition with others who are trying to do the same things. That is the essence of an examination.

During the academic year covered by this report three professors on the retired list have died. On October 3, Arthur Searle, Phillips Professor of Astronomy, Emeritus, died. Graduating from Harvard College in 1856, the second scholar in his class, he came back as Assistant Professor in 1883, and after four years was appointed Phillips Professor, a chair which he held at the Observatory for twenty-five years until he retired in 1912. Barrett Wendell, then an Overseer, died on February 8. With the intermission of a single year he had been Instructor, Assistant Professor, and Professor of English from 1880 until 1917 when he retired. In the early period of his service he and Dean Briggs remodelled the teaching of English composition, giving it substantially the form it has ever since retained; and after his resignation he was engaged in putting into printed form his well known college course on the history of literature, only one volume of the *Traditions of European Literature* being finished before his strength gave out. After his death the University of Paris did him the extraordinary honor of giving his name to a lecture room in the Sorbonne. Professor Jeremiah Smith died on September 3. He had been a

justice of the Supreme Court of New Hampshire from 1867 to 1874, and a highly valued professor in the Law School for twenty years from 1890 to 1910. Vigorous till an advanced age he inherited longevity, his father having been born in the reign of George the Second.

Another familiar figure was William Fiske Whitney, who died on March 4. For seven years he was Secretary of the Medical School from 1883 to 1890, and then Professor of Parasitic Diseases in the Veterinary School until it was given up in 1901; but his greatest service was rendered as Curator of the Warren Anatomical Museum, a position which he held from 1879 until his death. Under his charge for forty-two years the Museum grew to what it is today. On January 16 the death of Lincoln Ware Riddle, Assistant Professor of Cryptogamic Botany, cut short a young life of promise. Two months later, on March 18, came the death of John Winthrop Platner, Andover Professor of Ecclesiastical History and Dean of Andover Theological Seminary. Genial in personal intercourse, always cordial in his relations with the Divinity School, his loss is great to his colleagues in both institutions. In the summer, one of our youngest teachers, Larned Linn Smith, Instructor in Mathematics, was drowned on the ninth of August.

Five professors have retired by reason of age. Edwin Herbert Hall, the eminent Rumford Professor of Physics, had been a teacher here for forty years, and a full professor for twenty-six. Paul Henry Hanus had been Assistant Professor and Professor of the History and Art of Teaching for thirty years. During the earlier part of the time he was the only teacher of the subject, and he built up the department which has been transformed into the new School of Education. Edward Laurens Mark has rendered an even longer service, for he taught Zoölogy here for forty-four years. He was Hersey Professor of Anatomy for thirty-six years, and Director of the Zoölogical Laboratory for twenty-one. John Lovett Morse, Professor of Pediatrics in the Medical School, is a younger man, but after an arduous service of a score of years, in the later period as head of the department, he felt obliged to resign. Edward Stevens Sheldon, Professor of

Romance Philology, had the longest service of all. He was Instructor in Italian and Spanish for one year after graduating from the College in 1872, returned in 1877, and remained continuously until he retired. His learning in philology is enormous.

After the completion of the last Quinquennial Catalogue Mr. Henry Herbert Edes, who had kindly superintended its preparation and publication, resigned the office of Editor-in-Chief. At the end of the year Lincoln Frederick Schaub, who had taught Commercial Law in the School of Business Administration since it was established, and had served as its Secretary and as Acting Dean, resigned to accept an important commercial position. As Dean of the College Henry Aaron Yeomans had a deep influence on the moral tone of undergraduate life, but on accepting the position he stated that he could hold it only five years, and at their expiration he resigned. After a sabbatical year abroad he will return to take up again his duties as Professor of Government. His successor is Professor Chester Noyes Greenough, who filled the position in 1919-20, while Dean Yeomans was Exchange Professor in France and Director of the American University Union there.

During the past year only two new appointments of professors have been made: those of Oscar Menderson Schloss, Professor of Pediatrics in the Medical School, and of Maurice de Wulf, Professor of Philosophy. The latter holds a chair in the University of Louvain, and first came to us after the German invasion. He is now to spend half his time there and half of it at Harvard. The Directorship of the Observatory, left vacant by the death of Professor Pickering, has been filled. Harlow Shapley, of the Mount Wilson Observatory at Pasadena, came here in the spring with the title of Observer, Professor Solon Irving Bailey continuing for the time to be the Acting Director as he has done since the vacancy occurred. This autumn Mr. Shapley has been appointed Director, and Professor Bailey will take charge of the Observatory at Arequipa.

The promotions to permanent professorships have also been less in number than last year. In the Faculty of Arts

and Sciences there were five, of whom three were already associate professors. William Guild Howard was appointed Professor of German, Walter Raymond Spalding, Professor of Music, and Alfred Marston Tozzer, Professor of Anthropology; while James Ford was appointed Associate Professor of Social Ethics, and Grinnell Jones, Associate Professor of Chemistry. In the Medical School, Francis Weld Peabody, already Associate Professor, was made Professor of Medicine; Alexander Forbes was appointed Associate Professor of Physiology, and Charles Morton Smith Clinical Professor of Syphilology. Manley Ottmer Hudson was appointed Professor of Law; and Henry Vincent Hubbard, Professor of Landscape Architecture.

The exchanges of professors with other universities and colleges have continued as heretofore. Lawrence Joseph Henderson, Professor of Biological Chemistry, represented Harvard in France; and it was a pleasure to welcome here Henry Guy, Dean of the Faculty of Letters and Professor of French Literature at the University of Toulouse. Of the Western colleges, Edward Waldo Forbes, Director of the Fogg Art Museum, visited Carleton, Beloit and Knox; while George Howard Parker, Professor of Zoölogy, went to Grinnell, Colorado and Pomona.

Beside the payments of subscriptions to the Endowment Fund, and the sums paid by the Trustees of the Estate of Gordon McKay, and by the Carnegie Foundation on account of pensions, the gifts and legacies received during the year reached the sum of \$2,463,492.01, the single gifts of \$25,000 or more being as follows:

ANONYMOUS FUND No. 4:

Additional.....	\$50,000.00
MRS. WALTER RATHBONE BACON, ESTATE OF:	
"Edward R. Bacon Art Scholarships"	40,621.76
CLASS OF 1896:	
Addition to previous gifts for Twenty-fifth Anniversary Fund (making in all \$93,450)	45,450.00
JOHN COWDIN, ESTATE OF:	
Additional.....	44,000.00
JOSEPH R. DELAMAR, ESTATE OF:	
Additional, on account of his residuary bequest ...	777,772.46
CHARLES CHURCH DREW, ESTATE OF:	
Additional, on account of his residuary bequest...	111,667.76

GENERAL EDUCATIONAL BOARD:

Toward the construction of the new Lying-in Hospital \$300,000.00

JOHN HANCOCK MUTUAL LIFE INSURANCE COMPANY:

Toward the construction of the new laboratory at
the Collis P. Huntington Memorial Hospital . . . 30,000.00

GEORGE SCHÜNEMANN JACKSON FUND for the purchase
of books for the Library 39,065.34

A. PAUL KEITH, ESTATE OF:

On account of his residuary bequest 112,500.00

ELLIOT C. LEE, ESTATE OF:

Bequest of \$50,000 for the benefit of the Harvard
Medical School 50,750.00

MRS. JOHN KNOWLES PAINE, ESTATE OF:

To be added to the fund for "The John Knowles
Paine Fellowships in Music" 32,344.72

ABEL H. PROCTOR, ESTATE OF:

Bequest of \$50,000 to be added to the Proctor Fund. 50,136.11

ALFRED TREDWAY WHITE, ESTATE OF:

For the Department of Social Ethics 44,250.00

MRS. WILLIAM J. WRIGHT, ESTATE OF:

Bequest to be used for medical research 108,840.20

After such a list of benefactions it seems ungracious to speak of further wants; but a friend of the University remarked long ago that an institution of learning which was not in need was not doing all that it should. Our wants are many, and it is invidious to mention some in preference to others. There can, however, be no doubt that the lack of proper chemical laboratories is, and long has been, our most crying defect. Other laboratories, dormitories to house the students, and buildings for the Schools of Business Administration and Education, are badly needed if we are to continue what has been well undertaken. Nor are buildings our only want. Universities, if successful, must be beggars, and the better work they do the more they must beg.

A. LAWRENCE LOWELL, *President.*

CAMBRIDGE, December 13, 1921.

APPENDIX TO PRESIDENT'S REPORT

WHENCE THE STUDENTS COME

THE charts, or graphs, that follow are those prepared by Professor A. B. Hart to show the distribution of Harvard students — that is, the parts of the country of which they are residents. Numbers 1 and 5 are omitted because not so valuable for the purpose of this appendix.

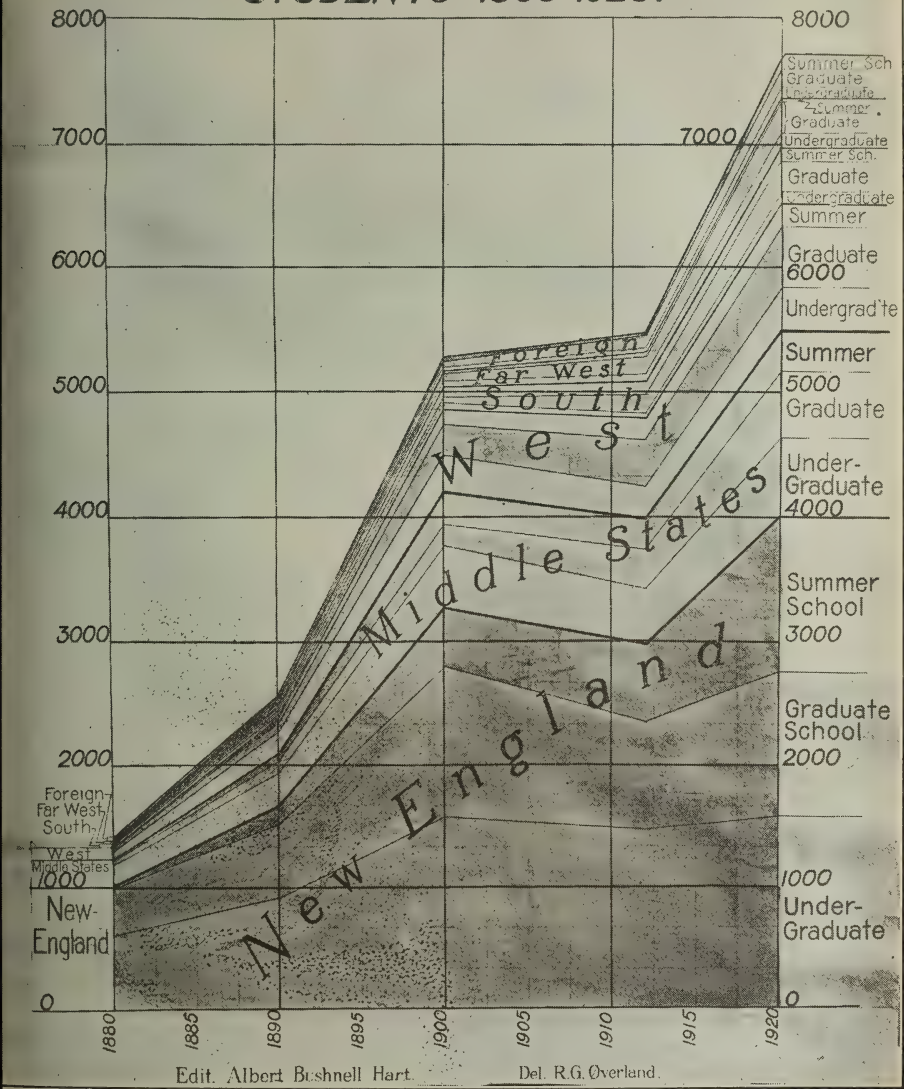
Graph No. 2 shows the growth in the number of students in the University in three groups — the College, the Graduate and Professional Schools, and the Summer School. The graph shows at the same time the part of the country from which the students come. It will be observed that from 1880 to 1890 the number of students increased considerably; that from 1890 to 1900 it increased with great rapidity; that from 1900 to 1912 it remained almost stationary; that from 1912 to 1920 it increased with nearly the same rapidity as in the last decade of the last century. It may be observed also that except for the summer school, there was an actual decline in the number of students from New England from 1900 to 1912, and that the subsequent increase has hardly made up for the loss.

Graphs 3 and 4 present the distribution of students by college and schools more in detail. The chart for the undergraduates shows that the number from New England was about the same in 1920 that it was in 1900, having in the meanwhile declined; that the gain in the last twenty years outside of New England has been fairly rapid.

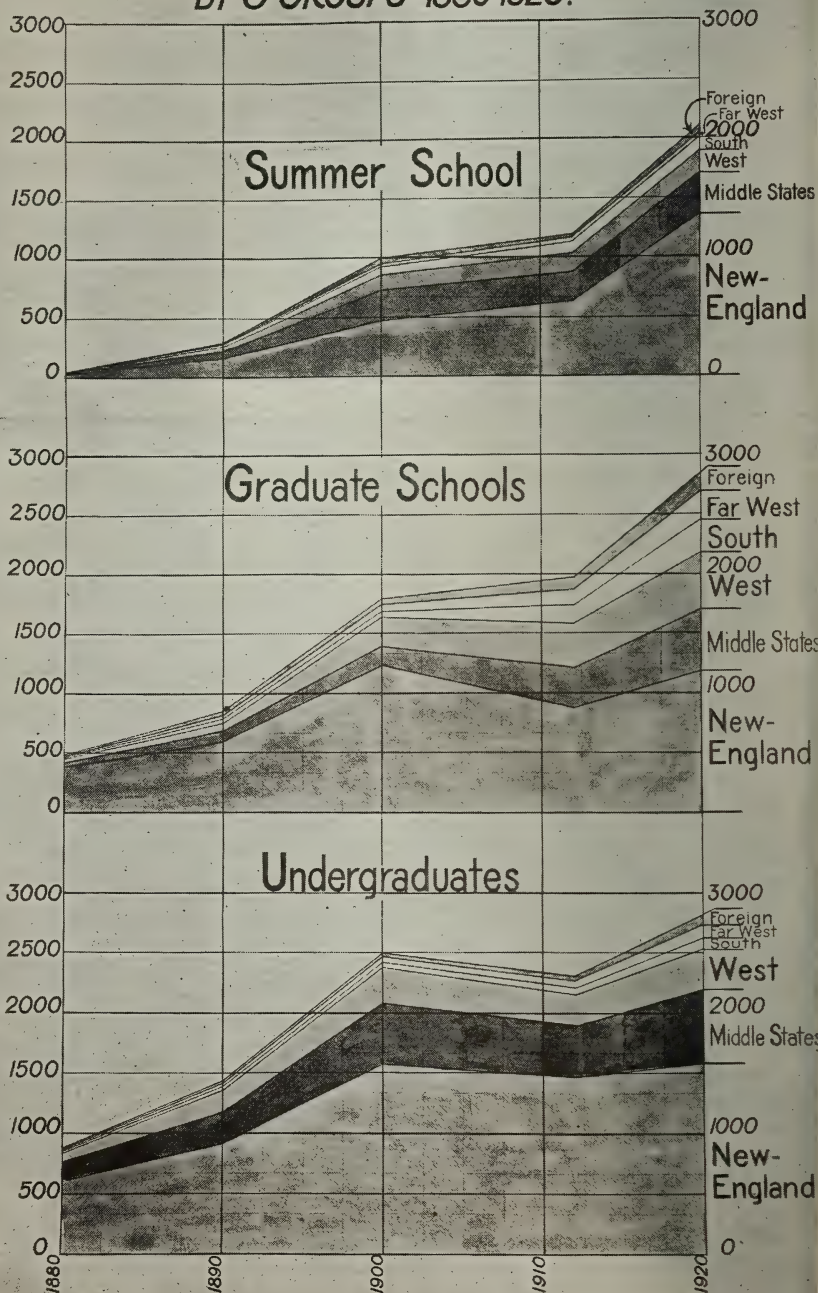
The graph immediately above this shows the graduate schools in the aggregate; but it is more interesting to observe them in Graph 4, which takes the larger ones separately. It may be observed that the Graduate School of Arts and Sciences reached a high point just before the War, which was not wholly regained in 1920, although the numbers are now increasing. There has been a considerable loss in the Middle West, and a distinct gain among the Far Western and foreign students. In the Law School the number of students from New England has distinctly fallen off, but there has been a great gain from other parts of the country, notable in the Middle States and the Far West, and especially in the South. The Medical School in 1900 was almost purely a New England school, but the men from New England fell off rapidly when the four years and the requirement of a college degree were introduced. They are now less numerous even than they were in 1905; but there has been a large growth from other parts of the country, from which one-half of the students now come. A similar growth beyond the borders of New England may be observed in the School of Business Administration.

Finally, Graph 6 gives the distribution of students in a number of universities and colleges, first in actual numbers, and then in percentages. In the case of Harvard and Columbia there are two columns, one giving only the regular students, while the other includes the summer school. The wide national distribution of students at Harvard and Yale is clearly seen.

Graph № 2. *DISTRIBUTION OF HARVARD STUDENTS - 1880-1920.*

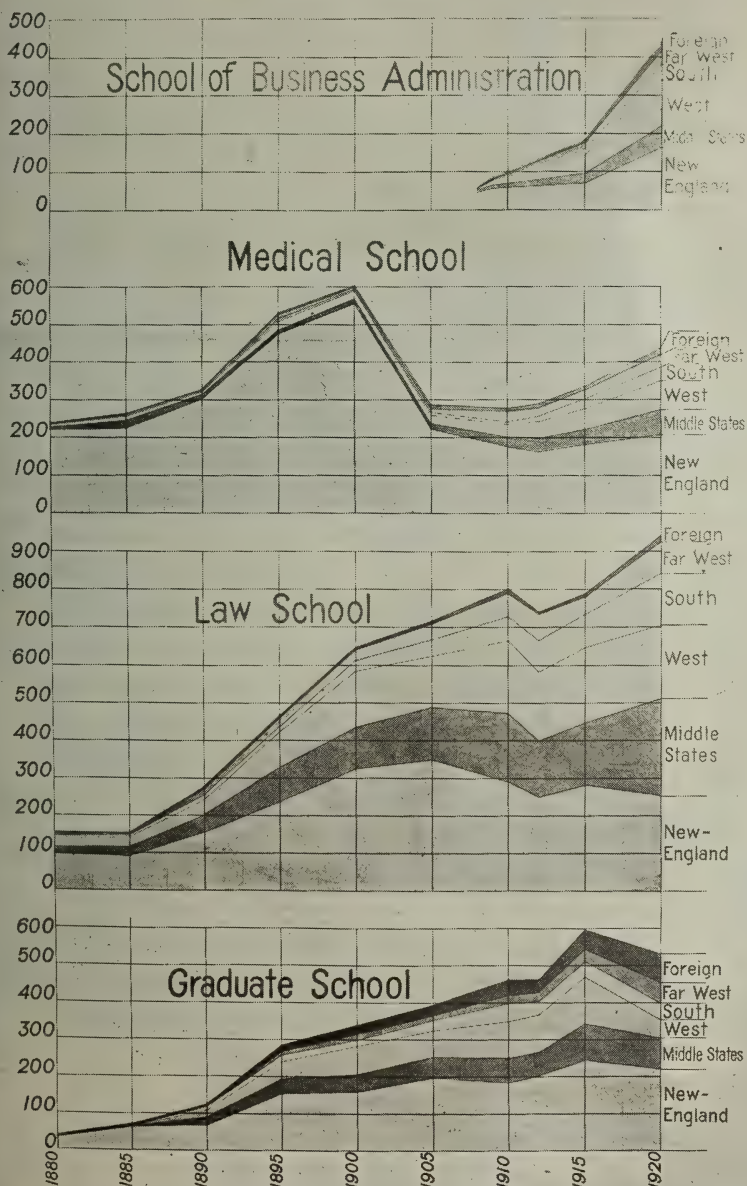


Graph No 3. *DISTRIBUTION OF HARVARD STUDENTS
BY 6 GROUPS - 1880-1920.*



Graph No 4.

DISTRIBUTION OF GRADUATE SCHOOLS BY 6 SECTIONAL GROUPS. 1880 - 1920.

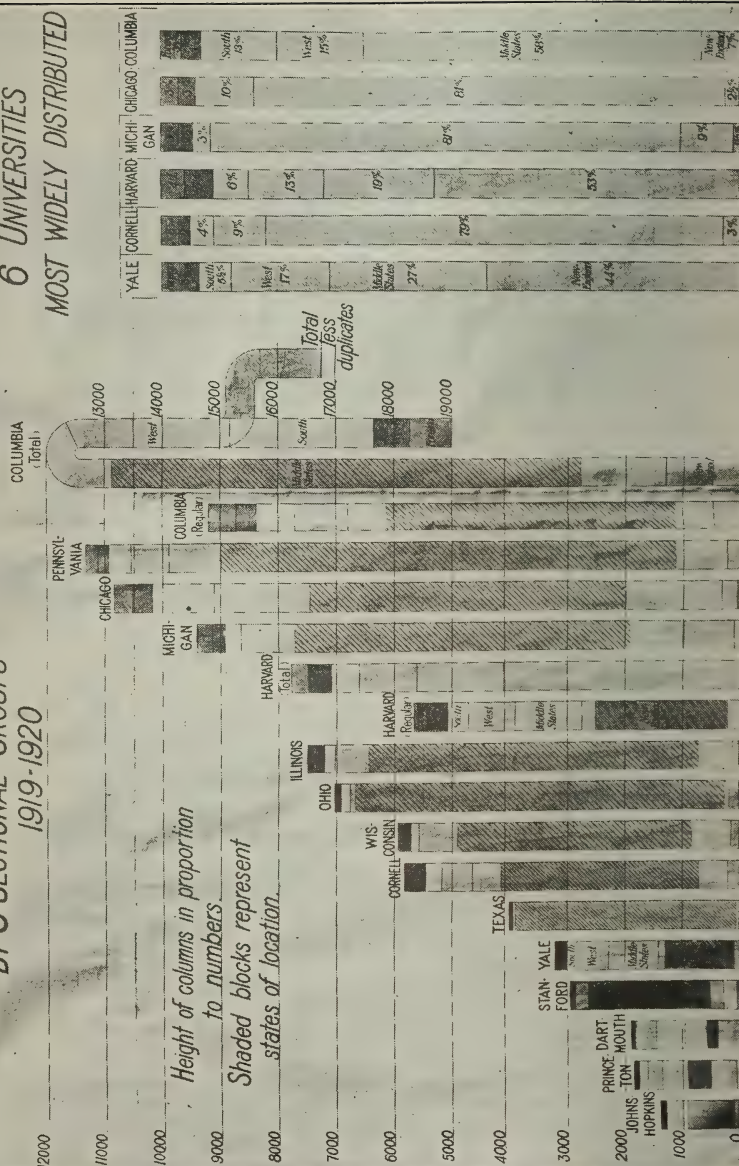


Graph No 6.

GEOGRAPHICAL DISTRIBUTION of LARGE UNIVERSITIES

BY 6 SECTIONAL GROUPS
1919-1920

PERCENTAGE DISTRIBUTION
OF THE
6 UNIVERSITIES
MOST WIDELY DISTRIBUTED



REPORTS OF DEPARTMENTS

FACULTY OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of giving you a report on the work of the Faculty of Arts and Sciences for the academic year 1920–21.

Besides the President, the Faculty contained one hundred and seven Professors, twenty Associate Professors, twenty-seven Assistant Professors, five Lecturers, twenty-two Instructors, the Regent, the Chairman of the Committee on Admission, the Director of Physical Education, and the Recorder, who is also Secretary of the Faculty — in all, one hundred and eighty-six members:

The visiting teachers from other universities and colleges were Professor Henri Guy, Exchange Professor from the University of Toulouse; Professor D. R. Curtiss of Northwestern University; Assistant Professor H. M. Fitzpatrick of Cornell University; Professor E. A. Horne of Patna University, India; Associate Professor H. B. Huntington of Brown University; Associate Professor C. I. Lewis of the University of California; and Associate Professor Lindsay Rogers of the University of Virginia.

Early in the year the Faculty again faced the question of allowing a group of students to lengthen somewhat the Christmas recess for a tour in the West. The case was a test case, since the petitioner was the Glee Club, which has become a serious musical organization doing distinguished work. The refusal of the Glee Club's request established a precedent which was applied to all students' organizations throughout the year: permission for tours wholly within the recess might be granted; permission for brief absence at other times was granted in moderation; the limits of recesses were carefully observed.

The Faculty, however, passed an unprecedented vote in helping the Glee Club to a tour in Europe after lectures and recitations were over. To arrive in France at a favorable time, the Club was obliged to leave Cambridge before the end of the examination period. Accordingly the Faculty voted:

That final examinations aboard ship be arranged for members of the Glee Club who sail on the proposed concert tour in Europe before the end of the examination period in June.

It was understood that the same final examinations which were required in Cambridge should be given on shipboard at the same hours, just as they are given at Red Top to the crews. It was further understood that seasickness which incapacitated the student should entitle him to the make-up examinations given in the autumn to students prevented by illness from attending the examinations in June. The excellent musical quality of the Glee Club, the international aspects of the expedition, in particular the generous interest shown by the government of France, led the Faculty to give the Club every possible encouragement and aid. The complete success of the tour not merely justified the Faculty but was of unmistakable value to the University.

On October 19 the Faculty voted:

That in the opinion of this Faculty an investigation should be made of the question whether the present methods of conducting certain athletic sports make unreasonable demands upon the time of the participants.

That a committee of seven, of which three representatives of this Faculty on the Committee on the Regulation of Athletic Sports shall be members, be appointed to collect the facts necessary to enable the Faculty to consider this question.

Accordingly, on October 26 the Committee on the Investigation of Athletic Sports was appointed: Professors C. N. Greenough (*chairman*), L. B. R. Briggs, J. L. Coolidge, H. A. Yeomans, R. I. Lee, E. E. Day, and Mr. Matthew Luce. On April 12 this Committee reported in part as follows:

Training seasons vary widely from one sport to another, and somewhat from year to year. The crew usually has two practice periods — an informal period of six or eight weeks in the fall, and a more active period begun indoors at the opening of the second half-year and continued on the water from the time when the river is open until the race with Yale in June. The training season of the track team differs considerably among the candidates, depending primarily upon the events in which they compete. For some of the candidates — notably the distance runners — training is intermittent throughout the year: a fall period of outdoor work is followed, after an interval of one month, by a season of indoor competition; and this (after a second intermission of one month) is succeeded by a period of intensive training during the spring. For other track men, training is largely confined to the six or eight weeks preceding the spring meets. Baseball, aside from the informal fall practice, has a schedule of about eighteen weeks' training, approximately two-thirds of which is in the field. Football practice usually runs through about eight weeks of term time with from two to three weeks of work before the opening of the Uni-

versity. Hockey practice lasts about eight weeks. Thus training seasons in the major sports vary in length from about two months to about six months.

The amount of practice each day varies less among the different sports. Football practice usually lasts about two hours. Indoor baseball practice requires about one hour and a quarter each afternoon; field practice, about two hours and a half. Crew practice takes only about an hour, and hockey practice about the same length of time. Track work appears to require least of all and probably does not average more than one-half to three-quarters of an hour.¹

In all the sports, the time required in going to and from the place of training, and in dressing before and after practice, has to be added to the period of actual training. When teams practise away from Cambridge — as when the cross country runners go to Belmont, or the crew to Lynn, or the tennis team to Chestnut Hill — from one-half to two or three additional hours may be demanded of the men. In general, however, a full hour each afternoon is probably ample allowance for the time candidates must give beyond the period of actual practice.

Managers devote to athletics every available moment during the active seasons of their sports. Candidates for managerships are usually kept at the place of practice as long as any players are out, and commonly for half an hour or an hour before and after practice.² In the more important sports, managers and candidates for managerships are at work most of the afternoon and occasionally spend part of the evening on additional assignments. As a group, managers and candidates for managerships seem to give to athletics at least twice as much time as the players.

Summarizing the evidence regarding the amount of time demanded of those participating in athletics, it is clear that there are conspicuous differences from sport to sport, both in the length of the practice season and in the intensity of training. As a rule, the shorter the season, the longer the period of daily practice. Probably baseball makes the maximum requirement — roughly three hundred hours including time taken in going to and from practice and preparing for it. At the other extreme, hockey probably requires less than half as much time — approximately one hundred and twenty-five hours. Rowing, football, and track games lie between, the aggregate for the crew being about two hundred and fifty hours, that for the football team about two hundred, that for the track team varying widely among the men.

To assist the Faculty in deciding whether, in its opinion, this amount of time can wisely be spent in athletics, the Committee next presents certain facts concerning the attendance, programmes,

¹ Some of the minor sports demand fully as much time as the major sports. Thus the tennis team practises a minimum of two hours an afternoon; the basketball team usually two hours; and the soccer team an hour and a half.

² In some of the minor sports in which no equipment is supplied, the work of the manager is slight and consists almost wholly of correspondence regarding contests.

and grades of players and managers as compared with other undergraduates.

The comparative regularity in attendance of students not participating in athletics and those taking part as players or managers is shown in a table. The frequency of cutting by players exceeds that of other students in relatively small degree. In view of the fact that members of athletic teams are necessarily away from Cambridge for some of the more important contests, it is clear that the players, while about the University, attend their courses fully as regularly as students not participating in the major sports. The records at this point are quite consistent with the contention of the players that they are under constant pressure from coaches and managers not to cut courses. Apparently no such pressure is felt by the managers.

Freshmen, as a class, cut only about three-fourths as much as other undergraduates.

A comparison of the grades of players and managers with those of students not participating in athletics shows that the players and managers, though they endeavor to obtain grades which assure their continuance on the team, fail to obtain distinction in as large a proportion as other undergraduates. The proportion of A's obtained by players is about half that secured by non-participants. But the proportion of B's is only slightly smaller than for students not participating in athletics, and the proportion of D's only slightly higher. The percentage of E's is almost the same. The Freshmen appear in a table. Upon the whole, the facts noted are equally true for Freshmen.

A decidedly poorer showing by managers and candidates for managerships is a consistent and conspicuous feature of the tabulation of grades for upper-classmen. In 1919-20 the managers obtained no A's, had only about one-third the proportion of B's obtained by non-participants, had nearly twice the proportion of D's, and almost three times the proportion of E's. The Freshman candidates for managerships did better in one particular: they obtained as large a percentage of A's as the players. On the other hand, the proportion of B's among the Freshman candidates for managerships was only two-thirds that among the players and non-participants, and the proportion of D's and E's was very much higher. The scholarship of managers and candidates for managerships was strikingly inferior to that both of players and of students not participating in the major sports.

On November 16 the Faculty voted:

That hereafter the Summer School be conducted as a joint enterprise of the Faculty of Arts and Sciences and the Graduate School of Education; the School to be under the immediate control of an administrative board, to be composed of representatives of the two Faculties in the approximate proportion of two-thirds from the Faculty of Arts and Sciences and one-third from the Faculty of the Graduate School of Education.

The resort of teachers, men and women, to the Summer School makes clear the appropriateness of the foregoing vote. The numbers and usefulness of the Summer School are constantly increasing. In 1921 it enrolled two thousand and twenty-two students.

On February 15 the Faculty voted:

That the hospitality of the University be extended without payment of tuition fees to holders of travelling fellowships from other universities and colleges upon the recommendation in each case of the Committee on Fellowships and other Aids for Graduate Students.

Besides expressing intercollegiate courtesy, votes of this kind strengthen the Graduate School.

On March 15 the Faculty voted:

That the Faculty of Arts and Sciences is of the opinion that the admission of women to the Graduate School of Education should not be regarded as establishing coeducation in the departments under this Faculty; that women students in the Graduate School of Education should therefore have no rights as such to take courses under the Faculty of Arts and Sciences.

That the Faculty of Arts and Sciences is of the opinion that by appropriate arrangements between Radcliffe College and the Graduate School of Education, women in the Graduate School of Education should be at liberty to obtain all the opportunities open to Radcliffe students in courses given at Radcliffe or open to Radcliffe students under the Faculty of Arts and Sciences.

That the Faculty of Arts and Sciences is of the opinion that no change should be made with reference to the admission of women to courses under the charge of this Faculty: it accordingly recommends that women be not admitted to courses primarily for undergraduates; that they be rarely admitted to courses for undergraduates and graduates and then only on vote of the Faculty and when the course in question is taken chiefly by graduate students; that they be admitted to courses for graduates only on vote of the Faculty; and that for admission to all courses the consent of the Instructor in charge be secured in advance.

That although it is not within the province of this Faculty to lay down the policy for Radcliffe College, the Faculty expresses the hope that as the demand for graduate instruction for women increases and as the resources of Radcliffe are enlarged, it will be possible for Radcliffe to provide a larger amount of independent instruction for graduate students.

Graduate courses open to Radcliffe students under the Faculty of Arts and Sciences are designated by a double dagger in the elective pamphlet.

On March 29 the Faculty voted:

That this Faculty authorize the appointment of Student Advisers for Freshmen and Unclassified students for the year 1921-22, with the understanding that the selection of Advisers and their direction shall be in the hands of a committee consisting of the Dean of Harvard College, the Regent, and Dr. Lee.

Student Advisers for Freshmen are not a new institution. Their value naturally varies, and has not infrequently been slight; but their possible usefulness is great. The foregoing vote has no bearing on the appointment of Advisers from the Faculty, nearly every member of which is official adviser of fifteen or twenty students.

L. B. R. BRIGGS, *Dean*.

THE COLLEGE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to present to you a report on Harvard College for the academic year 1920–21.

The number of students in the College at the time the lists were compiled for the Catalogue of 1920–21 was two thousand five hundred thirty-two, divided as follows:—

Seniors	341
Juniors	610
Sophomores	579
Freshmen	621
Total number of undergraduates	2,151
Out-of-Course Students	102
Unclassified Students	279
Total	2,532

Compared with the figures at the corresponding time of the preceding year, these show a loss of two:

	Gain	Loss
Seniors	65	
Juniors	40	
Sophomores		98
Freshmen	84	
Out-of-Course Students		100
Unclassified Students	7	
Totals	196	198
Net loss		2

During the year the following students died:

Harry Albert, '21.....	July	31, 1920
Barton Fay, '24.....	May	1, 1921
Gerhard Christian August Fetzner, '23.....	April	21, 1921
Milton Genensky, '22.....	November	19, 1920
Francis Underwood Perry, '21.....	March	21, 1921

Three hundred twenty candidates (nineteen in February¹⁹²¹ and three hundred one in June) received the degree of Bachelor of Arts in course. Of these, two hundred forty-three were regularly registered as Seniors; the registration of the others is shown in the following table:

Absent all the year	5
Absent during the first half-year	4
Absent during the second half-year	16
Registered in the Graduate School of Arts and Sciences	1
Registered in the Law School	7
Registered in the Business School	11
Registered in the Medical School	2
Registered in the Engineering School	1
Registered in the Junior Class	1
	<hr/> 48
To be designated "as of 1922" in the	
Quinquennial Catalogue	29
	<hr/> 77

Fifty-four candidates (six in February and forty-eight in June) received the degree of Bachelor of Science in course. Their registration is indicated in the next table:

In the Senior Class	40
Absent all the year	1
Absent during the first half-year	1
Absent during the second half-year	1
Registered in the Graduate School of Arts and Sciences	1
Registered in the Business School	2
Registered in the Medical School	1
Registered in the Engineering School	1
Registered in the Junior Class	3
	<hr/> 51
To be designated "as of 1922" in the	
Quinquennial Catalogue	3
	<hr/> 54

Compared with the table of last year, these last two tables show an increase of twenty-four in the number of candidates receiving the degree of Bachelor of Arts and an increase of twelve receiving the degree of Bachelor of Science.

One hundred nine candidates (forty-six in February and sixty-three in June) received the degree of A.B. for honorable service in the war. Their distribution by classes is shown in the following table:

Class of 1916	1
Class of 1917	3
Class of 1918	3
Class of 1919	21
Class of 1920	32
Class of 1921	47
"As of " Class of 1922	2
	<hr/> 109

Included in these figures are two degrees which were awarded to men who died. One was a member of the Class of 1919, and the other a member of the Class of 1921.

Twenty-two candidates (ten in February and twelve in June) received the degree of S.B. for honorable service in the war. Their distribution by classes is shown in the following table:

Class of 1918.....	3
Class of 1919.....	4
Class of 1920.....	6
Class of 1921.....	9
	—
	22

Included in these figures is one degree which was awarded to a member of the Class of 1921 who died in the service.

The Freshman Class of 1921-22 (which includes one hundred eight men provisionally classified as Freshmen) shows an increase of two hundred sixty-three. The number of men in the Class who entered College in 1921-22 by examination is one hundred twenty-nine more than the corresponding number in 1920-21.

Forty-four students (or 2.0 % of the undergraduates) won a place in the First Group of Scholars. Of these, nineteen hold honorary scholarships; twenty-five stipendiary. Last year thirty-seven students (or 1.8 % of the undergraduates for that year) won a place in the First Group. Of these, nineteen held honorary scholarships; eighteen, stipendiary.

One hundred seventeen students (or 5.6 % of the undergraduates) won a place in the Second Group of Scholars. Of these, fifty-six hold honorary scholarships; sixty-one, stipendiary. Last year ninety-nine students (or 4.8 % of the undergraduates) won a place in the Second Group. Of these, fifty-two held honorary scholarships; forty-seven, stipendiary.

In the First Group are thirteen Seniors, seventeen Juniors, thirteen Sophomores, and one candidate for the degree out-of-course; in the Second Group, forty-eight Seniors, forty-one Juniors, twenty-four Sophomores, and four candidates for the degree out-of-course; giving as totals sixty-one Seniors, fifty-eight Juniors, thirty-seven Sophomores, and five candidates for the degree out-of-course.

The members of the Administrative Board for the year 1920-21 were Professors Ward, Baxter, Greenough, Lee, Burbank, Edgell, and the Dean. The Assistant Deans were Kenneth Ballard Murdock and Edward Randolph Gay.

In the course of the year, the Board closed the probation of thirty-nine students; twenty-eight students who at some previous time, after having had their connection with the College severed, had been readmitted on condition that if their records became unsatisfactory they should withdraw, failed to maintain satisfactory records and were required to withdraw; one student who had not previously had his connection with the College severed, was required to withdraw; the trial of three students was closed. At the end of the year, the connection of one hundred seven students was severed because of their low records. For an offense involving moral turpitude eight students were dismissed and two were expelled.

With the passing of another year the problems of war time have lessened in number and importance. In 1920-21 only two of the four classes knew the College as a military training school. A large fraction of their members were not called into active service. At the end of the year only one class remains whose academic record consists in part of the broken work of 1918-19. Only a few scattered candidates for the "War Degree" are left. As the Dean was abroad during the greater part of the years 1918-19 and 1919-20, he may be permitted to say that he is greatly impressed by the maintenance of regular academic standards during the crisis. The first duty, of course, was immediate service to the army and navy, but with a depleted and overworked Faculty the College supported not only its military curriculum, but also its usual offering of broad, fundamental instruction. This fact made easier the return to normal conditions and enabled the Administrative Board to insist substantially upon the usual requirements for the regular degree, even from those students whose residence covered the period of the war.

Among the unusual situations following the war, the return to College of large numbers of men who had been in service was notable. How would their attitude toward the work and discipline of the College be affected by their military experience? Our records afford no striking reply to this question. There is no doubt that the returning soldiers and sailors found it more difficult than it had been before to carry on work which they did not regard as direct, practical training for a business or profession. The same state of mind, however, is observable in most men who are obliged for any reason to interrupt their college course. In fact, the more mature a student is, the harder he finds it to delay immediate preparation for his work in life, whether his college course has been interrupted

or not. It is not clear that military service had any peculiar tendency to wean students from their college work. Any experience which interrupted that work, and especially any experience which hastened maturity of thought and action, might well have had the same effect.

As regards observance of college discipline and conduct in general, the same negative observations hold true. A splendid group of men left our colleges to enter the army and navy. They were a splendid group of men when they were discharged. Some individuals were weakened by their military experience, others were strengthened. But in general we have no convincing evidence that military discipline, as our students underwent it, makes for or against self-discipline.

It seems clear that, irrespective of the effects of the war, the student body as a whole is more responsible and more sensible of its obligations to the community than it was twenty or even ten years ago. This is due in part to the fact that the minimum requirements of the College have been slowly but steadily raised. The undergraduate will answer any reasonable demand that is fairly enforced. He works more and he works more intelligently than he used to do. He does and says things that his elders, including the Dean, do not always approve; but he is in earnest. He criticizes the Faculty and especially the officers of administration, sometimes with reason, sometimes without; but criticism, even if it be always unreasonable, is better than indifference.

This attitude toward college work is reflected in general conduct. The boyish pranks that were common twenty-five years ago have, at least for the time, almost wholly disappeared. There is too much serious business on hand. Though younger in years, the students are older in habits of mind. They take a keener interest in the problems of the general community and react more sharply to its feelings and opinions. The use of alcoholic drinks, for instance, illustrates this tendency. If it be true, as some have thought, that since the passage of the eighteenth amendment a small group of students have drunk bad liquor with a bravado which has made them conspicuous, the same statement could be made as truthfully of small groups of their elders in most of our cities. However this may be, it seems clear that fewer students drink alcoholic liquor and fewer students drink it to excess than ever before. This keeping closer step with the general public is due in part to the extremely democratic character of our student body. Our undergraduates come from families in every walk of

life and make a fair cross-section of society at large. But it is also due in large part to the growing conviction among the students that they come to college, not merely to spend four pleasant years, nor even to pursue scholarship as an end in itself, but rather to train their minds for the service of the public. If such training is to be effective, students must not drift away from the public they are to serve.

It would be well if the community at large, and especially if graduates and the relatives and friends of undergraduates, could appreciate, as the students themselves are beginning to do, the true character of the College. We are administering a great trust for the benefit of the public. We expend upon the instruction of every student hundreds of dollars in excess of the tuition fee which he pays, not simply because we think it well for the student, but also because we think it well for the public that we should do so. If a student fails to profit by his instruction, he injures not only himself and the College, but the public as well. The students themselves realize this fact. Those who are sent away are the first to admit that they have been recreant to the public good. But too often their friends and relatives assume that the only parties to the controversy are the College on one side and the student and his family on the other. They seem not to appreciate that time, money, and effort have been wasted from which the public is entitled to demand a profitable return.

In the course of the year a special committee of the Faculty, under the chairmanship of Professor Greenough, made an interesting study of the amount of time employed by students in athletic sports. The initiative came from the Faculty, but the students coöperated heartily in the investigation. Both athletes and managers stated frankly the facts as they had observed them and offered criticism, destructive and constructive, for the consideration of the committee. The general conclusion reached was that managers and candidates for managerships spend too much time in the conduct of athletics, but that the athletes themselves do not devote an excessive amount of time to their sports.

Another and a very important question was raised by the students themselves. For the second time representatives of the Student Council asked that at the end of the year the names of all students be published in the order of their academic standing. Forty years ago every student was given a strict numerical rating in his class, but the practice was abandoned and marking by groups indicated by letters substituted for marking by percentages. The

Faculty deemed it unwise to return to numerical rating. In this view the students immediately acquiesced with the request that a rank list arranged by groups be published. The Administrative Board recommended to the Faculty a substantial compliance with this request. Any doubt which the members of the Board might have had about the details of the plan was more than outweighed by the desire to support the students in any effort to advance scholarship. The argument of the students was that the high scholar is already sufficiently honored and the low scholar sufficiently driven, but that no sufficient encouragement is given to the student of moderate ability whose earnest effort enables him to do better work than the loafer of equal ability. In short, the students wished to have distinctions made and published in the middle ranges of scholarship. The Faculty approved the recommendation of the Board, not without doubt and hesitation, but in the hope that its support of the experiment would indicate to the students a cordial approval of their attitude and that the experiment itself might, perhaps with modifications, eventually stimulate a general interest in scholarly attainment.

College generations are short, and college traditions are quickly made and altered. An experience of nearly ten years in the office covers many changes. We have our ups and downs. The period following the war has been a trying time, for in the colleges, as well as in society at large, we have had to meet the temporary drift toward relaxation of moral standards which usually sets in after a great war. But the deep and steady current of college life moves ever forward. The quality of the students never really fails. The Dean sees much that is unworthy, but he sees far more that is strong and sound and inspiring. He incurs hostility and resentment, but he also meets warm appreciation and gratitude out of all proportion to his effort. Though his work is before him, his reward is with him. If there were none else, his abiding faith in the undergraduate would be reward enough.

HENRY A. YEOMANS, *Dean.*

ATHLETIC SPORTS

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor of submitting a report from the Committee on the Regulation of Athletic Sports for the academic year 1920–21.

Before the beginning of the year Mr. Henry Pennypacker, '88, headmaster of the Boston Latin School, who had served as a graduate member of the Committee, was made a member of the Faculty, resigned his position in Boston and became Chairman of the Committee on Admission to Harvard College. Since he could be ill spared from the Committee on the Regulation of Athletic Sports, he was retained as a graduate member, the number of faculty members being complete without him. Besides the chairman the members of the Committee were as follows:

Representing the Faculty:

Professor Henry Aaron Yeomans, '00, Dean of Harvard College.
Dr. Roger Irving Lee, '02, Professor of Hygiene.

Representing the Alumni:

Henry Pennypacker, '88.
Benjamin Loring Young, '07.
Laurence Curtis, 2d, '16.

Representing the Undergraduates:

Edward Livingston Bigelow, Captain of the hockey team.
Dennis Francis O'Connell, Jr., Captain of the track team.
Louis Butler McCagg, Jr., Captain of the crew.

In the principal intercollegiate sports the University teams had a good share of success. This remark does not apply to the crew, which met a series of defeats ending with the loss of a close race at New London. Yale and Harvard, which should represent the best amateur rowing in America, seem to have lost all claim to that distinction; and among important colleges Harvard was at the bottom of the list. Nor is this situation the result of parsimony in the authorities, who spend freely — many persons think too freely — for the training of the crews. The cause must be looked for elsewhere. Meantime it is a satisfaction to note that the number of men who row for pleasure is large, that the pleasure is memorable and helpful, and that the cost, though great, has justified itself.

In track athletics a period of continued inferiority was followed last year by a remarkable rally which made the Yale meet close,

brought victory in the Princeton meet, almost brought victory in the intercollegiate meet, and produced some brilliant results in the international games between Yale and Harvard on the one hand and Cambridge and Oxford on the other. The change began to be felt immediately after the appointment of Mr. W. J. Bingham, '16, as coach. Mr. Bingham, who later was appointed assistant graduate treasurer, will still have charge of track athletics. Since distinction in track athletics is no obstacle to success in study, the greatly increased number of students taking part in them is especially gratifying.

The international contests after considerable discussion were authorized at a meeting on March 22 when the Committee favored the sending of the following telegram to Oxford and Cambridge:

President University Athletic Club, Oxford (and Cambridge),
England.

Harvard and Yale invite Oxford and Cambridge joint track meet
Harvard Stadium preferably June eighteenth next. Could probably
guarantee expenses up to fifteen thousand dollars total. Please
cable Harvard. Harvard and Yale Athletic Associations.

On May 3 the Committee approved arrangements for a tennis match of Yale and Harvard against Oxford and Cambridge with suitable guarantees.

On the same day the Committee approved the following resolution of the Student Council, thereby ratifying the formation of a Committee on Minor Sports:

Whereas, as the result of consideration by the Athletic Committee and the Student Council of the proposal to form a Minor Sports Committee, it appears desirable that some organized body be created which shall be closely in touch with the minor sports and through representatives on the Student Council keep the Council informed as to conditions in these sports and their needs,

Be it resolved that the Student Council establish a subordinate committee whose members shall be the Captains and Managers at any time of the recognized minor sports;

That said Committee shall organize and elect a president and secretary who shall be from different sports. They shall represent the minor sports on the Student Council and shall call meetings in the intervals between the meetings of the Student Council for the purpose of considering minor sport affairs and informing and making recommendations to the Student Council relative thereto;

That the Student Council shall call a first meeting of the said Captains and Managers forthwith to effect such organization, and after this year shall call such first meeting as soon as possible after its own organization for the year.

In December the Committee considered unfavorably the possibility of a home-and-home game of football with Ohio State, the champion of the Ohio Conference. It is the policy of the Committee and especially of the Faculty to discourage distant contests. On the other hand, Western colleges are often willing to play in the Stadium, where the guarantees are adequate.

The lamentable career of our swimming teams and the futility of competition in swimming until the College has been provided with a swimming pool raised the question, as yet unsettled, whether Harvard shall continue to recognize swimming as an intercollegiate sport.

The recent change in Sunday law raised anew the desire that the tennis courts should be open on Sunday. The Graduate Treasurer reported that Jarvis Field is too near a church for lawful use on Sunday, and that if Soldiers Field should be thrown open on Sunday, there would be no little difficulty in protecting the property there.

The Committee is beset on every hand with the schemes of philanthropic organizations for extracting money in one way or another from the crowds that attend games. Poor business conditions, contributions for relief in Europe and Asia, and heavy taxation on large incomes have so seriously lessened the resources of those to whom home charities have looked for support that some of these charities are desperately in need of new and effective devices for raising money. It is only natural that those who see thousands and thousands of persons collected in one place for expensive amusement should see an extraordinary opportunity for personal solicitation of the well-to-do; it is natural even that the less sensitive officers of charitable organizations should remember hopefully that games are frequented by young men escorting young women in whose presence they are afraid of appearing mean and are "ripe for the contribution box." Nothing would be easier than to convert the Stadium into a bewildering blend of a country fair with a bedlam of tag days. Nearly every new petitioner opens the subject as if he or she had made a new financial discovery which speaks for itself. Proposals are of three sorts:

- (1) That the proceeds of an important game be given to the petitioner's favorite charity or that a special benefit game be played in its behalf.
- (2) That employees of that charity be empowered to solicit money in the Stadium, or, at least, inside the fence and on the grounds of the University;
- (3) That these employees be empowered to sell on the grounds objects more or less useful for the benefit of the charity.

Since the charity is often, if not always, worthy, refusal seems hard-hearted; but general acquiescence would soon make the athletic grounds intolerable, and discrimination would lead to grave perplexities. Once or twice in the stress of war Yale, Princeton, and Harvard permitted collections at their great football games. Last year Yale, Princeton, and Harvard allowed an appeal for European relief to be sent out with tickets for their great games; and Harvard sent also notice of University publications about Harvard men who died in the war. This, I think, is as far as our own Committee has ever gone.

The Harvard Athletic Association, though a somewhat nebulous institution, has a claim on the money taken in at games, unless the Corporation, by a sort of eminent domain, attaches it. Much of this money, as I said in my report a year ago, is used for general athletic purposes, sometimes for purposes that may be called semi-athletic, such, for instance, as the preparation of ground for a stable to house horses used by the Department of Military Science. Without the earnings of the Harvard Athletic Association, not merely athletic crews and teams but athletic sport throughout the University would be financially crippled. Moreover, there can be little doubt that the large sums spent in perfecting a football game increase rather than diminish the net income of the Association. For better or for worse what was designed as a game has become to the players discipline of body and mind (education of a sort) rather than fun, though not all the fun has been eliminated from it. Having become discipline, it demands highly developed skill which can be acquired through nothing but severe and costly training and which people who admire skill in athletics will pay to see. The Harvard Athletic Association, having sold tickets, is in duty bound to protect, as far as may be, the purchasers of those tickets from confusion that interferes with their seeing what they have paid to see and from annoying and embarrassing solicitation.

Advertising in or near, and especially over, the athletic grounds has become more or less of a nuisance. On November 16 "the Graduate Treasurer was instructed to prevent the flying of kites for advertising purposes from the Soldiers Field grounds and to prevent the exposure of other advertising devices at the field, and so far as possible to discourage flights by airplane above the field."

The flight of airplanes above the field, if it cannot lawfully be prohibited, will be in a few years a serious menace to the comfort of spectators and even to the satisfactory playing of the game. Incidentally, there are wide and unpleasant possibilities in the

relation of flying machines (and of aerial photography) to secret practice. The time may come when secret practice cannot confidently be maintained without an air patrol and the consequently heavy overhead charges. Hence opponents of secret practice may take heart.

Investigation by a Committee of the Faculty brought to light a notable waste of time and neglect of study on the part of managers and especially candidates for managerships. These candidates, in the effort to prove their value, would spend on the field many hours in which their occupation, if they had one, was either trumped up by their superiors for the mere sake of keeping them busy or for a similar reason exacted of them when clerks or ordinary laborers would have done as well or better. This year Mr. Bingham has taken the candidates in hand with a view to saving the competition from that foolish short-sightedness which leads to academic disaster.

L. B. R. BRIGGS, *Chairman*.

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Dean of the Graduate School of Arts and Sciences, I have the honor to submit a report on the School for the academic year 1920–21.

The following tables present in summary form information concerning the number and distribution of the students, recommendations for degrees, and the assignment of fellowships and scholarships.

Table I shows that the number of students registered in the School was five hundred and sixty-eight. Of this number five hundred and forty-one were resident, and twenty-seven non-resident, all of whom were travelling fellows. Of the resident students four hundred and forty-four were in attendance during the whole year, of whom two hundred and seventy-seven were doing full work. Of the remaining ninety-seven resident students, thirty-six entered the School after November 1, and sixty-three (including two of the preceding) withdrew before the end of the year.

The enrolment is thus slightly larger than in the preceding year, in spite of the loss of the Division of Education, organized in 1920 as a separate Graduate School.

TABLE I. — NUMBER AND CLASSIFICATION OF STUDENTS

	1918-19	1919-20	1920-21
I. Resident Students doing full work in the School for the whole academic year	96	291	277
Resident Students not doing full work or not working for the whole year as Resident Students	259	251	264
	—355	—542	—541
Travelling Fellows	3	22	27
II. Students whose studies lay chiefly in			
Semitic Languages and History	1	7	6
Ancient Languages (Classics and Indic Philology) .	5	14	21
Modern Languages (including Comparative Literature)	60	146	142
History, Government, and Economics	66	142	174
Philosophy	29	40	59
Education	28	45	1
Fine Arts	7	5	5
Music .....	..	2	5
Mathematics	12	16	27
Physics	12	24	26
Chemistry	26	56	54
Biology	12	24	17
Geology	6	13	11
Anthropology	1	5	5
Medical Sciences	6	9	11
Unclassified Students	9	16	4
Military Science	1	..	..
S.A.T.C. (first term)	62	..	..
Naval Unit (first term)	17	..	..
Marine Unit (first term)	5	..	..
	—365	—564	—568
Names counted twice	7	..	..
	—358	—564	—568
III. First-year Students	213	343	285
Second-year Students	66	101	175
Third-year Students	27	63	59
Fourth-year Students	35	29	30
Students in fifth year or later	17	28	19
	—358	—564	—568
IV. *A.B.'s and S.B.'s of Harvard University and of no other institution	118	147	161
A.B.'s and S.B.'s (and holders of similar degrees) of other institutions and also of Harvard University	1	2	2
A.A.'s of Harvard University .....	..	2	1
Students not holding the Harvard degree of A.B., S.B., or A.A.	239	413	404
	—358	—564	—568
V. Students holding the Harvard degree of A.M., S.M., Ph.D., or S.D.	75	102	116
*Students holding the Harvard degree of A.B., S.B., or A.A., but not of A.M., S.M., Ph.D., or S.D.	97	111	128
Students holding no Harvard degree in Arts, Philosophy, or Science	186	351	324
	—358	—564	—568

In Table II similar facts concerning residence and amount of work are set forth for a period of twenty years. Table III and IV show the percentage of students in their first and following years and the percentage of graduates of Harvard College.

* Harvard College Seniors on leave of absence, with work for the bachelor's degree completed or nearly completed, are counted in this Table as holders of the degrees for which they are candidates in Harvard College.

TABLE II. — NUMBER OF STUDENTS: 1901-1921

	1920-21	1919-20	1918-19	1917-18	1916-17	1915-16	1914-15	1913-14	1912-13	1911-12	1910-11	1909-10	1908-09	1907-08	1906-07	1905-06	1904-05	1903-04	1902-03	1901-02
Resident Students doing full work in the School for the whole academic year	277	291	96	142	326	362	334	298	344	308	311	279	290	287	281	260	273	289	216	218
Resident Students not doing full work or not working for the whole year as Resident Students	264	251	259	171	308	275	222	197	134	139	147	156	123	119	105	133	105	123	94	86
Whole number of Resident Students	541	542	355	313†	634*	637	556	495	478	447	458	435	413	406	386	393	378	412	310	304
Non-Resident Fellows	27	22	3	10†	17*	15	17	34	26	28	26	15	15	17	21	16	15	14	15	11
Other Non-Resident Students . . . . .	..	..	..	..	..	..	..	..	..	..	..	2	1	1	..	..	2	1	..	..
Whole number of Non-Resident Students	28	22	3	10	17	15	17	34	26	28	26	17	16	18	21	16	17	15	15	11
Whole number of Students	568	564	358	321	650	652	573	529	504	475	484	452	429	424	407	409	395	427	325	315
Percentage of Resident Students doing full work for whole academic year	49	52	27	44	51	57	60	60	72	69	68	64	70	71	73	66	72	70	72	72

* One duplication.

† Two duplications.

TABLE III. — PERCENTAGE OF STUDENTS IN THEIR FIRST AND FOLLOWING YEARS: 1908-21

	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21
	%	%	%	%	%	%	%	%	%	%	%	%	%
First-year Students	57	56	53	54	52	50	54	53	47	48	59	61	50
Second-year Students	24	25	28	23	25	23	21	25	26	21	18	18	31
Third-year Students	12	11	11	14	14	16	14	12	15	18	8	11	10
Fourth-year Students and Students of longer residence	7	8	8	9	9	11	11	10	12	13	15	10	9

TABLE IV. — PERCENTAGE OF GRADUATES OF HARVARD COLLEGE: 1916-17 — 1920-21

	1916-17	1917-18	1918-19	1919-20	1920-21
Total enrolment	650	321	358	564	568
*Number of graduates of Harvard College	165	82	119	149	162
*Percentage of graduates of Harvard College	25 %	26 %	33 %	26 %	29 %
Number of graduates of other colleges and universities	485	239	239	415	406
Percentage of graduates of other colleges and universities	75 %	74 %	67 %	74 %	71 %

* Harvard College Seniors on leave of absence are reckoned as graduates of Harvard College. A.A.'s of Harvard University are, for purposes of convenience, also so counted.

TABLE V. — COLLEGES AND UNIVERSITIES REPRESENTED BY FOUR OR MORE GRADUATES IN THE SCHOOL:
1916-17, 1917-18, 1918-19, 1919-20, 1920-21

1916-17	1917-18	1918-19	1919-20	1920-21
Harvard.....279	Harvard.....140	Harvard.....174	Harvard.....209	Harvard.....247
Dartmouth.....22	Dartmouth.....12	Boston Coll.....10	Dartmouth.....15	Boston Univ.....17
Yale.....20	Wisconsin.....10	Boston Univ.....9	Boston Univ.....13	Dartmouth.....16
California.....19	Northwestern (Ill.).....6	Columbia.....8	Bowdoin.....13	Chicago.....12
Columbia.....13	Tufts.....6	Dartmouth.....8	Columbia.....12	Bowdoin.....11
Minnesota.....13	Yale.....6	Mass. Inst. of Tech.....8	Yale.....11	Columbia.....11
Tufts.....12	Colorado.....5	Yale.....8	Wisconsin.....11	Illinois.....10
Wisconsin.....12	Michigan.....5	Amherst.....6	Williams.....11	Illinois.....10
Bowdoin.....11	Minnesota.....5	Northwestern (Ill.).....6	Williams.....10	Michigan.....10
Brown.....11	Syracuse.....5	California.....5	Amherst.....9	Williams.....10
Michigan.....11	Williams.....5	Toronto.....5	Toronto.....9	Haverford.....8
Princeton.....10	Amherst.....4	Coll. of the Holy Cross.....5	California.....7	Mass. Inst. of Tech.....8
Chicago.....10	Boston Coll.....4	Illinois.....5	Chicago.....7	California.....8
Williams.....10	Boston Univ.....4	Princeton.....5	Michigan.....7	Toronto.....8
Illinois.....9	Brown.....4	Tufts.....5	Tufts.....8	Vanderbilt.....8
Missouri.....9	California.....4	Wisconsin.....5	Boston Coll.....6	Yale.....8
Haverford.....8	California.....4	Bowdoin.....4	Cornell Univ.....7	Brown.....7
Amherst.....7	Chicago.....4	Brown.....4	McGill.....7	McGill.....7
Boston Univ.....7	Columbia.....4	Coll. of the City of New York.....4	Minnesota.....6	Minnesota.....7
Cornell Univ.....7	Mass. Inst. of Tech.....4	Yale.....4	Northwestern (Ill.).....6	Pennsylvania.....7
Mass. Inst. of Tech.....7	Monmouth.....4	Vermont.....4	Wesleyan (Conn.).....6	Tufts.....7
Northwestern (Ill.).....7	Western Reserve.....4	Wesleyan (Conn.).....4	Colby.....5	Cornell Univ.....6
Virginia.....7		Williams.....4	Haverford.....5	Northwestern (Ill.).....6
Western Reserve.....7			State Univ. of Iowa.....5	Rochester.....6
Bates.....6			Kansas.....5	Amherst.....5
Clark.....6			Rochester.....5	Indiana.....5
Tulane.....6			Bates.....4	Kansas.....5
Pennsylvania.....6			Brown.....4	Oberlin.....5
Hobart.....5			Illinois.....4	Stanford.....5
Leland Stanford Jr.....5			Lafayette.....4	Wesleyan (Conn.).....5
Oberlin.....5			Middlebury.....4	Bates.....4
Texas.....5			Minnesota.....4	Clark.....4
Allegheny.....4			Oberlin.....4	Colby.....4
Colby.....4			Swarthmore.....4	Johns Hopkins.....4
Coll. of the City of New York.....4			Texas.....4	North Carolina.....4
Dalhousie.....4				Princeton.....4
Lafayette.....4				Queen's.....4
Mass. Agri. Coll.....4				Texas.....4
Nebraska.....4				
Washington.....4				
Wesleyan (Conn.).....4				
West Virginia.....4				

TABLE VI. — HOLDERS OF DEGREES FROM HARVARD AND
TWENTY-FOUR OTHER COLLEGES AND UNIVERSITIES:
1905-06 — 1920-21

	1905-06	1906-07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21	Total
Total Membership	409	407	424	429	452	484	475	504	529	573	652	650	321	358	564	568	
Harvard	197	185	182	182	199	218	211	215	239	232	269	279	140	174	209	247	3378
Dartmouth.....	6	10	8	9	10	11	13	21	17	22	17	22	12	8	15	16	217
Yale.....	8	7	6	5	7	7	16	16	14	15	18	20	6	8	12	8	173
Bowdoin.....	3	5	6	8	7	9	10	10	10	13	12	11	2	4	13	11	134
Boston Univ.....	7	8	6	5	3	7	8	7	8	10	6	7	4	9	13	17	125
Amherst.....	8	7	10	9	14	8	5	5	4	8	14	7	4	6	9	5	123
Williams.....	7	3	7	6	8	6	7	9	11	10	7	10	5	4	11	10	121
California.....	3	5	6	4	5	4	6	7	9	12	14	19	4	5	7	8	118
Brown.....	12	4	8	9	6	7	5	7	6	12	11	11	4	4	4	7	117
Columbia.....	4	7	5	11	5	5	4	..	3	6	11	13	4	8	12	11	109
Michigan.....	10	6	9	7	6	3	7	6	4	7	8	11	5	3	7	10	109
Chicago.....	4	4	4	5	8	8	5	7	9	6	5	10	4	3	7	12	101
Haverford.....	5	5	3	6	8	8	8	6	11	7	8	8	2	2	5	8	100
Princeton.....	3	4	4	7	8	3	3	4	5	11	13	10	3	5	3	4	90
Mass. Inst. of Tech. .	2	2	4	6	6	5	4	5	8	9	6	7	4	8	3	8	87
Tufts.....	1	2	..	4	5	5	2	5	7	9	10	12	6	5	7	7	87
Northwestern.....	1	1	2	6	6	8	6	9	2	6	5	7	6	6	6	6	83
Kansas.....	3	5	3	4	7	5	7	8	4	5	6	2	1	1	5	5	71
Toronto.....	3	8	4	5	2	6	7	5	3	2	3	2	2	2	9	8	71
Texas.....	1	2	6	5	6	3	2	4	7	7	10	5	2	2	4	4	70
Indiana.....	4	5	5	3	6	6	8	..	5	2	6	2	2	2	6	5	67
Ohio Wesleyan.....	12	4	5	3	4	4	5	..	4	5	2	3	2	1	2	..	56
Oberlin.....	3	3	3	4	4	..	2	..	5	7	5	5	1	2	4	5	53
Dalhousie.....	4	2	3	3	4	4	4	5	4	2	6	4	..	..	1	2	47
Leland Stanford Jr. .	3	3	4	1	1	4	3	..	1	6	6	5	1	1	3	5	47

TABLE VII. — BIRTHPLACES OF GRADUATE STUDENTS:
1918-21

	1918-19	1919-20	1920-21
Students born in the New England States.....	138	170	169
Students born in other Northern States east of the Mississippi River.....	96	171	163
Students born in Southern States east of the Mississippi River.....	15	31	53
Students born in States west of the Mississippi River.....	37	69	61
Students born in the Dominion of Canada.....	9	24	14
Students born in other foreign countries.....	63	99	108
Total number of students.....	358	564	568
Percentage of students born in New England.....	39	30	30
Percentage of students born elsewhere.....	61	70	70

Tables VIII and IX set forth the number of candidates recommended for higher degrees and their distribution throughout the various Divisions and Departments.

TABLE VIII. — RECOMMENDATIONS FOR DEGREES IN 1919-21

	1919	1920	1921
I. Graduate Students recommended for A.M.	30	151	147
Graduate Students recommended for Ph.D.	24	49	49
	—54	—200	—196
II. Divinity Students recommended for A.M. on approved courses of study .....	..	1	1
Total number recommended for A.M. and Ph.D.	54	201	197
III. Harvard Bachelors of Arts or Science, not previously graduated elsewhere	13	42	61
Harvard Bachelors of Arts or Science, previously grad- uated elsewhere .....	..	1	2
Harvard Associates in Arts .....	..	1	1
Students not Harvard Bachelors of Arts or Science	41	157	133
	—54	—201	—197

TABLE IX. — DIVISIONS AND DEPARTMENTS IN WHICH RECOM-
MENDATIONS FOR THE HIGHER DEGREES WERE MADE IN 1921

Division	Department	Degrees	
		A.M.	Ph.D.
Semitic Languages and History		2	..
Ancient Languages		5	2
Modern Languages:			
English		24	9
Germanic Languages and Literatures		2	1
French, and other Romance Languages		9	..
Comparative Literature		1	1
In more than one Department		3	..
Total in Modern Languages		—39	—11
History, Government, and Economics:			
History		12	7
Government		3	2
Economics		22	4
Business Economics	1
In more than one Department		7	..
Total in History, Government, and Economics		—44	—14
Philosophy		12	5
Education		2	..
Fine Arts
Music
Mathematics		7	..
Physics		8	1
Chemistry		20	4
Biology:			
Botany		3	3
Zoölogy		1	4
Total in Biology		—4	—7
Geology
Anthropology	2
Medical Sciences	3
Professional Students:			
Divinity School		1	..
Total		148	49

The degree of Doctor of Philosophy was conferred upon the forty-nine men named below: —

BORIS ARONOVITCH, A.M. (*Columbia Univ.*) 1916.

Subject, Medical Sciences. *Special Field*, Bacteriology. *Thesis*, "The Soluble Toxic Substances Produced by the Organisms of the Colon-Typhoid Group." Instructor in Chemistry, St. Louis University School of Medicine.

HAROLD HOOPER BLANCHARD, A.B. (*Clark Coll.*) 1916, A.M. (*Harvard Univ.*) Feb. 1921.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "Italian Influence on the *Faerie Queene*." Frederick Sheldon Fellow, in Rome.

BRAND BLANSHARD, A.B. (*Univ. of Michigan*) 1914, A.M. (*Columbia Univ.*) 1918, S.B. (*Univ. of Oxford*) 1920.

Subject, Philosophy. *Special Field*, Logic. *Thesis*, "The Nature of Judgment." Assistant Professor of Philosophy, University of Michigan.

LELAND DAVID BUSHNELL, S.B. (*Michigan Agricultural Coll.*) 1905, S.M. (*Univ. of Kansas*) 1915.

Subject, Medical Sciences. *Special Field*, Bacteriology. *Thesis*, "A Study of the Bacteria Found in Spoiled Canned Asparagus." Professor of Bacteriology, Kansas State Agricultural College.

MERTON KIRK CAMERON, A.B. (*Princeton Univ.*) 1908, A.M. (*Harvard Univ.*) 1914.

Subject, Economics. *Special Field*, Economic History. *Thesis*, "The History of Tobacco-Growing in the Ohio Valley." Assistant Professor of Economics, University of Oregon.

ROBERT RALSTON CAWLEY, A.B. 1915 (1914), A.M. 1915.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "The Influence of the Voyagers in Non-Dramatic English Literature between 1550 and 1650." Rogers Fellow, in London.

SAMUEL WOOD CHASE, A.B. (*Bowdoin Coll.*) 1914, A.M. (*Harvard Univ.*) 1916.

Subject, Biology. *Special Field*, Zoölogy. *Thesis*, "The Mesonephros and Urogenital Ducts of *Necturus maculosus Rafinesque*." Instructor in Biology, Western Reserve University School of Dentistry.

BENJAMIN CROCKER CLOUGH, A.B. 1911, A.M. 1918.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "The Metaphysical Poets: John Donne and his School." Instructor in English, Brown University.

WILLIAM HARDER COLE, A.B. (*Hamilton Coll.*) 1914, A.M. (*Harvard Univ.*) 1916.

Subject, Biology. *Special Field*, Zoölogy. *Thesis*, "The Transplantation of Skin in Frog Tadpoles." Professor of Biology, Lake Forest College.

EMMETT REID DUNN, A.B. (*Haverford Coll.*) 1915, A.M. (*ibid.*) 1916.

Subject, Biology. *Special Field*, Zoölogy. *Thesis*, "The Salamanders of the Family Plethodontidae." Associate Professor of Biology, Smith College.

EDWARD CHARLES EHRENSPERGER, A.B. 1916, A.M. 1918.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "Dreams in Middle English Literature." Frederick Sheldon Fellow, in Bonn.

RUDOLF HERBERT ERNST, A.B. (*Northwestern Univ., Wis.*) 1904, A.M. (*Harvard Univ.*) 1911.

Subject, Philology. *Special Field*, Germanic Philology. *Thesis*, "Shaftebury and Herder."

HERBERT FEIS, A.B. 1916.

Subject, Economics. *Special Field*, Labor Problems. *Thesis*, "An Investigation of Wage Principles Underlying a Policy of Industrial Peace." Associate Professor of Economics, University of Kansas.

GOODWIN LEBARON FOSTER, A.B. (*Dartmouth Coll.*) 1913.

Subject, Medical Sciences. *Special Field*, Biochemistry. *Thesis*, "A Study of the Glucose to Nitrogen Ratios of the Phlorhizinized Dog, Cat, and Rabbit, and the Depancreatized Dog." Associate Professor of Biochemistry, University of California.

GEORGE BRUCE FRANKLIN, A.B. (*Univ. of Georgia*) 1903, A.M. (*Harvard Univ.*) 1913.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "Abraham Cowley." Professor of English, Evansville College.

JOSEPH VINCENT FULLER, A.B. 1914.

Subject, History. *Special Field*, Diplomatic History. *Thesis*, "The Transformation of Bismarck's European System." Research Assistant, Amherst.

WILLIAM HENRY GEORGE, A.B. (*Geneva Coll.*) 1900, A.B. (*Harvard Univ.*) 1902, A.M. (*Princeton Univ.*) 1906, B.D. (*Princeton Theological Sem.*) 1907.

Subject, Political Science. *Special Field*, Political Theory. *Thesis*, "French Political Theory since 1848, with Special Reference to Syndicalism." 323 South Bonnie Brae Street, Los Angeles, Cal.

COLIN BRUMMITT GOODYKOONTZ, A.B. (*Univ. of Colorado*) 1912, LITT.M. (*Univ. of California*) 1914.

Subject, History. *Special Field*, American History. *Thesis*, "The Home Missionary Movement and the West, 1798-1861, with Particular Reference to the American Home Missionary Society." Assistant Professor of American History, University of Colorado.

FELIX GUSTAF GUSTAFSON, A.B. (*Univ. of Wisconsin*) 1915, A.M. (*Harvard Univ.*) 1919.

Subject, Biology. *Special Field*, Botany. *Thesis*, "A Study of the Respiration of certain Lower Fungi." Instructor in Botany, University of Michigan.

HARRISON LEROY HARLEY, S.B. (*Univ. of Pennsylvania*) 1911.

Subject, Philosophy. *Special Field*, Psychology. *Thesis*, "The Development of Psychological Tests for Office Clerks." Assistant Professor of Psychology, Simmons College.

ATCHESON LAUGHLIN HENCH, A.B. (*Lafayette Coll.*) 1912, A.M. (*Harvard Univ.*) 1917.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "The Allegorical Personification of *Ratio* to the Year 1400." Assistant Professor of English, Wesleyan University, Conn.

JOSEPH PAUL HETTWER, A.B. (*Marquette Univ.*) 1915, A.M. (*Catholic Univ. of America*) 1916, A.M. (*Harvard Univ.*) 1917.

Subject, Philosophy. *Special Field*, Psychology. *Thesis*, "Studies in the Conditioned Reflex." Philip H. Sears Scholar, in London.

ORREN CHALMER HORMELL, A.B. (*Indiana Univ.*) 1904, A.M. (*ibid.*) 1905, A.M. (*Harvard Univ.*) 1909.

Subject, Political Science. *Special Field*, Municipal Government. *Thesis*, "Selected Problems in Municipal Finance." Professor of History and Government, Bowdoin College.

MERRITT YERKES HUGHES, A.B. (*Boston Univ.*) 1915, A.M. (*ibid.*) 1916, A.M. (*Univ. of Edinburgh*) 1918.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "Some Aspects of the Relation of Edmund Spenser's Poetry to Classical Literature." American Field Service Fellow, in Paris.

DUNCAN CLARK HYDE, A.B. (*McGill Univ.*) 1917, A.M. (*Harvard Univ.*) 1918.

Subject, Economics. *Special Field*, Public Finance. *Thesis*, "The War Finance of the Dominion of Canada." Assistant Professor of Economics, Knox College.

- ONDESS LAMAR INMAN, A.B. (*Indiana Univ.*) 1915, S.M. (*Univ. of Idaho*) 1916.
Subject, Biology. *Special Field*, Botany. *Thesis*, "A Study of Respiration as Related to Injury and Recovery." Professor of Biology, Antioch College.
- ANDREW AFFLECK KERR, A.B. (*Univ. of Utah*) 1907, A.M. (*Harvard Univ.*) 1917.
Subject, Anthropology. *Special Field*, Ethnology. *Thesis*, "Similarities in Material Culture between the Old and the New World." Assistant Professor of Archaeology, University of Utah.
- ALBERT LUDWIG KOHLMEIER, A.B. (*Indiana Univ.*) 1908, A.M. (*Harvard Univ.*) 1911.
Subject, History. *Special Field*, American History. *Thesis*, "The Commercial Relations between the United States and the Netherlands and Dutch West Indies, 1783-1789." Professor of History, Indiana University.
- SAMUEL KIRKLAND LOTHROP, A.B. 1915.
Subject, Anthropology. *Special Field*, Archaeology. *Thesis*, "The Ceramics of Northern Costa Rica and Western Nicaragua." Research Assistant in Anthropology, Carnegie Institution, Washington, D. C.
- HECTOR JOHN MACLEOD, S.B. (*McGill Univ.*) 1914, S.M. (*Univ. of Alberta*) 1916, A.M. (*Harvard Univ.*) Feb. 1921.
Subject, Physics. *Special Field*, Electric Oscillations. *Thesis*, "The Variation with Frequency of the Loss of Energy in Dielectrics." Associate Professor of Physics, University of Alberta.
- WILLIAM MOULTON MARSTON, A.B. 1915, LL.B. 1918.
Subject, Philosophy. *Special Field*, Psychology. *Thesis*, "Systolic Blood Pressure and Reaction-Time Symptoms of Deception and of Constituent Mental States." Lawyer, 60 State Street, Boston.
- RICHARD STOCKTON MERIAM, A.B. 1914.
Subject, Economics. *Special Field*, Social Ethics. *Thesis*, "Trade Unions in Germany, 1865-1914." Instructor in Economics, and Tutor in the Division of History, Government, and Economics, Harvard University.
- LAURENCE BRADFORD PACKARD, A.B. 1909.
Subject, History. *Special Field*, French History. *Thesis*, "Some Antecedents of the Conseil du Commerce of 1700." Watson Professor of History, University of Rochester.
- SIDNEY RAYMOND PACKARD, A.B. (*Amherst Coll.*) 1915, A.M. (*Harvard Univ.*) 1916.
Subject, History. *Special Field*, Mediaeval History. *Thesis*, "The Administration of Normandy under Richard and John, 1189-1204." Assistant Professor of History, Smith College.
- JAMES PLUMMER POOLE, S.B. (*Univ. of Maine*) 1912, A.M. (*Harvard Univ.*) 1918.
Subject, Biology. *Special Field*, Botany. *Thesis*, "Comparative Anatomy of the Leaf of the Cycads with Reference to the Cycadofilicales." Assistant in Zoölogy, Harvard University.
- LESTER MARSH PRINDLE, A.B. (*Univ. of Vermont*) 1915, A.M. (*Harvard Univ.*) 1916.
Subject, Philology. *Special Field*, Classical Philology. *Thesis*, "Quaestiones de libello quem Iulius Firmicus Maternus scripsit de errore profanarum religionum." Assistant Professor of Latin, University of Vermont.
- JOHN REVELL REINHARD, A.B. 1915, A.M. 1916.
Subject, Philology. *Special Field*, Comparative Literature. *Thesis*, "Amadas et Ydoine: A Study in Comparative Literature." Frederic Sheldon Fellow, in Paris.
- SANDFORD MEDDICK SALYER, A.B. (*Amherst Coll.*) 1904, A.M. (*Harvard Univ.*) 1914.
Subject, Philology. *Special Field*, English Philology. *Thesis*, "Joseph Hall as a Literary Figure, with Special Reference to his Satiric Writings." Assistant Professor of English, University of Oklahoma.

THOMAS HENRY SANDERS, B.COM. (*Univ. of Birmingham*) 1905, M.COM. (*ibid.*) 1914.

Subject, Business Economics. *Special Field*, Accounting. *Thesis*, "The Valuation of Assets for Rate-Making Purposes." Assistant Professor of Accounting, Harvard University.

CLEVELAND SYLVESTER SIMKINS, A.B. (*Univ. of Oregon*) 1916.

Subject, Biology. *Special Field*, Zoölogy. *Thesis*, "On the Origin and Migration of so-called Primordial Germ Cells in the Mouse and Rat." Assistant Professor of Anatomy, Histology, and Embryology, Medical School, University of Tennessee.

LEE IRVIN SMITH, A.B. (*Ohio State Univ.*) 1913, A.M. (*ibid.*) 1915, A.M. (*Harvard Univ.*) 1917.

Subject, Chemistry. *Special Field*, Organic Chemistry. *Thesis*, I. "The Addition Reactions of Unsaturated Ketones." II. "The Bromination of Acetacetic Ester." III. "The Action of Alkalis on Nitrocyclopropanes." Assistant Professor of Organic Chemistry, University of Minnesota.

STANLEY BARNEY SMITH, A.B. 1916, A.M. 1917.

Subject, Philology. *Special Field*, Classical Philology. *Thesis*, "De Sortitione apud Athenienses." Instructor in Latin, Ohio State University.

CHARLES PHELPS SMYTH, A.B. (*Princeton Univ.*) 1916, A.M. (*ibid.*) 1917.

Subject, Chemistry. *Special Field*, Physical Chemistry. *Thesis*, "Solid Thallium Amalgams." Instructor in Chemistry, Princeton University.

BENJAMIN LESLIE SOUTHER, S.B. (*Univ. of Minnesota*) 1916, S.M. (*Purdue Univ.*) 1918.

Subject, Chemistry. *Special Field*, Organic Chemistry. *Thesis*, I. "On Hydroxypyridines." II. "On Delta-Ketonic Nitriles." Instructor in Chemistry, University of Illinois.

WILLIAM SENTMAN TAYLOR, S.B. (*Pennsylvania Coll.*) 1916, A.M. (*Harvard Univ.*) 1920.

Subject, Philosophy. *Special Field*, Epistemology. *Thesis*, "Belief and Behavior." Lecturer in Psychology, Bryn Mawr College.

REGINALD GEORGE TROTTER, A.B. (*Yale Univ.*) 1911, A.M. (*Harvard Univ.*) 1915.

Subject, History. *Special Field*, Canadian History. *Thesis*, "A Study of the more Immediate Influences Leading to the Federation of the Dominion of Canada." Assistant Professor of British History, Stanford University.

PHILIP FRANCIS WEATHERILL, A.B. (*Bowdoin Coll.*) 1916, A.M. (*Harvard Univ.*) 1917.

Subject, Chemistry. *Special Field*, Analytical Chemistry. *Thesis*, I. "The Change in Volume of Potassium Chloride upon Solution in Water." II. "A Revision of the Atomic Weight of Silicon." Instructor in Inorganic and Physical Chemistry, University of Michigan.

SHEPARD HALSEY WERLEIN, Jr., A.B. (*Vanderbilt Univ.*) 1897, A.M. (*ibid.*) 1898, S.T.B. (*Univ. of the South*) 1902, A.M. (*Harvard Univ.*) 1918.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "Edmund Waller: A Study of his Life and Works." Rector, Grace Church, Rosedale, Miss.

CARL WITTKE, A.B. (*Ohio State Univ.*) 1913, A.M. (*Harvard Univ.*) 1914.

Subject, History. *Special Field*, English History. *Thesis*, "The History of Parliamentary Privilege in England." Assistant Professor of American History, Ohio State University.

TABLE X. — FELLOWSHIPS AND SCHOLARSHIPS (1919-22) *

1. *Applications and Appointments*

	1919-20	1920-21	1921-22
Spring applicants for reappointment or promotion	65	74	73
Spring applicants for a first appointment	232	268	257
Later applicants	47	23	52
	—344	—365	—382
Appointed to fellowships	32	35	30
Appointed to scholarships	93	76	83
Appointed instructors, teaching fellows, or assistants	22	33	25
	—147	—144	—138
Deduct for repetitions	5	..	..
	—142	—144	—138
Entered or continued in the Graduate School of Arts and Sciences without receiving any of the above-named appointments	40	60	80
Entered undergraduate classes of Harvard College .....	..	2	2
Entered other Departments of the University	1	6	8
	—41	—68	—90
Applicants who were at the University in the year following their applications	183	212	226
Applicants not at the University in that year	161	153	156
	—344	—365	—382

* This Table is based primarily upon the work of the Committee on Fellowships and other Aids for Graduate Students, and therefore does not always represent the total number of appointments awarded to Graduate Students in any given year, since certain appointments are made by the Corporation upon the direct recommendation of the Committee on the Sheldon and other General Fellowships and in similar ways. It is, however, sufficiently accurate for purposes of comparison.

2. Classification of Applicants and Appointees

	1919-20		1920-21		1921-22	
	Applicants	Appointees	Applicants	Appointees	Applicants	Appointees
Students of Philology	103	37	99	34	111	35
Students of History, Political Science, Philosophy, or Education	146	52	159	43	144	41
Students of Mathematics, Physics, or Chemistry	62	24	77	26	99	28
Students of Natural History	28	12	25	7	23	9
Students of other branches, or unclassified....	5	..	5	1	5	..
	344	125	365	111	382	113
Students in Graduate School of Arts and Sciences	71	40	130	45	129	54
Students in Harvard College	10	2	25	11	26	5
Students in other Departments of the University	1	1	3	...	1	..
Former Students in some Department of the University	61	30	26	12	31	8
Persons never previously members of the University	201	52	181	43	195	46
	344	125	365	111	382	113
*Harvard Bachelors of Arts or Science, not previously graduated elsewhere	35	18	40	19	55	18
Harvard Bachelors of Arts or Science previously graduated elsewhere	1	...	...	...	...	...
Graduates of other institutions, not Harvard Bachelors of Arts or Science	253	89	244	64	237	66
Undergraduates of Harvard College	11	2	25	11	25	5
Undergraduates of other institutions and other non-graduates	44	16	56	17	65	24
	344	125	365	111	382	113

* Harvard College Seniors on leave of absence are reckoned as graduates of Harvard College.

Fifty-two fellowships were assigned for the year 1920-21. There were twenty-five resident and twenty-seven non-resident appointments. A list of the incumbents follows. After the name of each fellow is given the name of his fellowship, the subject that he studied, and his present occupation. The place of study of the non-resident fellows is also indicated.

TRAVELLING FELLOWS

EDWARD FREDERICK ADOLPH, Frederick Sheldon Fellow. Biological Chemistry. Paris.

Instructor in General Physiology, University of Pittsburgh.

DONALD GROVE BARNES, Bayard Cutting Fellow. History. London.
Parker Fellow, in London.

- CARL FREMONT BRAND, Parker Fellow. History. London.
Instructor in History, University of Michigan.
- NILES CARPENTER, Frederick Sheldon Fellow. Social Ethics. London.
Instructor in Social Ethics, Harvard University.
- MICHAEL HERMOND COCHRAN, Parker Fellow. History. Berlin.
Private Tutor, Cambridge.
- CHARLES EMIL KANY, Frederick Sheldon Fellow. Romance Languages.
Paris.
Associate in Spanish, Bryn Mawr College.
- CLARENCE KENNEDY, Charles Eliot Norton Fellow. Classics. Athens.
Assistant Professor of Art, Smith College.
- DAVID ARNOLD KEYS, Frederick Sheldon Fellow. Physics. Cambridge, Eng-
land.
Research Scholar, Cavendish Laboratory, Cambridge, England.
- HARRY JOSHUA LEON, Frederick Sheldon Fellow. Classics. Rome.
Frederick Sheldon Fellow, in Rome.
- CHARLES HAROLD LIVINGSTON, Frederick Sheldon Fellow. Romance Lan-
guages. Paris.
Professor of Romance Languages, Bowdoin College.
- ALFRED EDWIN LONGUEIL, Frederick Sheldon Fellow. English. Aberystwyth,
Wales.
Assistant Professor of English, Cornell College.
- SAMUEL KIRKLAND LOTHROP, John Harvard Fellow. Anthropology. Chevy
Chase, Md.
Research Assistant in Anthropology, Carnegie Institution, Washington,
D. C.
- ARTHUR WILLIAM MARGET, Frederick Sheldon Prize Fellow. Semitic. London.
Third-Year Graduate Student. Edward Austin Fellow.
- FREDERICK MERK, Frederick Sheldon Fellow. History. London.
Instructor in History, Harvard University.
- JOHN WILLIAM MERTEN, Parker Fellow. Romance Languages. Paris.
3434 Telford Avenue, Cincinnati, O.
- JOHN RICHARDSON MILLER, Parker Fellow. Romance Languages. Paris.
Teacher of French, Newton High School.
- FORREST HAMILTON MURRAY, Frederick Sheldon Fellow. Mathematics.
Paris.
American Field Service Fellow, in Paris.
- GEORGE BLANCHARD PHILLIPS, Parker Fellow. Philosophy. Edinburgh.
Instructor in Philosophy, Drake University.
- ARTHUR POPE, Sachs Fellow. Fine Arts. London.
Professor of Fine Arts, Harvard University.
- LESTER MARSH PRINDLE, Charles Eliot Norton Fellow. Classics. Rome.
Assistant Professor of Latin, University of Vermont.
- WALTER SILZ, Rogers Fellow. German. Gaildorf, Germany.
Third-Year Graduate Student. Edward Austin Fellow.
- MELVILLE MACHOL SMITH, Elkan Naumburg Fellow. Music. Paris.
John Knowles Paine Fellow, in Paris.
- MERRILL TEN BROECK SPALDING, Belgian Fellow. History. Ghent.
Parker Fellow, in Paris.
- LAWRENCE D. STEEFEL, Rogers Fellow. History. London.
John Harvard Fellow, in Paris.
- NORMAN LEWIS TORREY, Belgian Fellow. Economics. Ghent.
Third-Year Graduate Student. Instructor in French.
- JOSEPH LEONARD WALSH, Frederick Sheldon Fellow. Mathematics. Paris.
Instructor in Mathematics, Harvard University.
- JOSEPH LOUIS ZIMMERMAN, Belgian Fellow. Philosophy. Louvain.
Third-Year Graduate Student. Assistant in Philosophy.

RESIDENT FELLOWS

- ROY HIDEMICHI AKAGI, Thayer Fellow. History.
Harrison Fellow, University of Pennsylvania.
- GORDON WILLARD ALLPORT, Henry Bromfield Rogers Memorial Fellow. Psychology.
Third-Year Graduate Student. Robert Treat Paine Fellow.
- JAMES WATERHOUSE ANGELL, John Thornton Kirkland Fellow. Economics.
Second-Year Graduate Student. Tutor in the Division of History, Government, and Economics.
- OLIN WINTHROP BLACKETT, Thayer Fellow. Economics.
Second-Year Graduate Student. Assistant in Economics.
- HAROLD HOOPER BLANCHARD, Christopher M. Weld Scholar. English.
Frederick Sheldon Fellow, in Rome.
- BRAND BLANSHARD, Philip H. Sears Scholar. Philosophy.
Assistant Professor of Philosophy, University of Michigan.
- LEWIS EDWARD BRETT, Harris Fellow. Romance Languages.
Third-Year Graduate Student. Harris Fellow.
- OSCAR CLEON BRIDGEMAN, Edward Austin Fellow. Chemistry.
Third-Year Graduate Student. Edward Austin Fellow.
- FREDERICK MASON CAREY, Thayer Fellow. Classics.
Third-Year Graduate Student. William Watson Goodwin Fellow.
- LEO ISADORE DANA, John Tyndall Scholar. Physics.
Third-Year Graduate Student. Whiting Fellow.
- ARTHUR BURR DARLING, John Harvard Fellow. History.
Instructor in History, Simmons College. Fourth-Year Graduate Student.
- MERRILL JAMES DORCAS, Edward Austin Fellow. Chemistry.
Instructor in Chemistry, Wesleyan University, Conn.
- EDWARD CHARLES EHRENSPERGER, Edward Austin Fellow. English.
Frederick Sheldon Fellow, in Bonn.
- BIRAJA SANKAR GUHA, Hemenway Fellow. Anthropology.
Second-Year Graduate Student. Hemenway Fellow.
- MARCUS LEE HANSEN, Roosevelt Research Fellow. History.
Fourth-Year Graduate Student. Tutor in the Division of History, Government, and Economics, and Assistant in History.
- ONDESS LAMAR INMAN, Thayer Fellow. Botany.
Professor of Biology, Antioch College.
- ERNEST LEE JACKSON, Du Pont Fellow. Chemistry.
Fourth-Year Graduate Student. Du Pont Fellow.
- NORMAN MACDONALD, Ozias Goodwin Memorial Fellow. History.
Instructor in History, Simmons College. Second-Year Graduate Student.
- HUGH MACKENZIE, Francis Parkman Fellow. History.
Second-Year Graduate Student. Austin Teaching Fellow in History.
- FRANCIS HENRY McMAHON, Willard Scholar. English.
Professor of English, Boston College.
- SAMUEL REZNECK, Edward Austin Fellow. History.
Instructor in European History, Ohio State University.
- EDOUARD SAERENS, Belgian Fellow. Chemistry.
Second-Year Graduate Student. Belgian Fellow.
- THOMAS HENRY SANDERS, Henry Lee Memorial Fellow. Economics.
Assistant Professor of General Accounting Practice, Industrial Accounting, and Accounting Principles, Harvard University.
- STANLEY BARNEY SMITH, William Watson Goodwin Fellow. Classics.
Instructor in Latin, Ohio State University.
- WILLIAM SENTMAN TAYLOR, James Walker Fellow. Philosophy.
Lecturer in Psychology, Bryn Mawr College.

TABLE XI.—CANDIDATES FOR THE MASTER'S DEGREE: 1918-21

	1918-19	1919-20	1920-21
Whole number of men who applied for, or stated an intention of applying for, the A.M. degree	53	232	234
Of these there received the degree	30	148	148
“ “ “ had the degree postponed because of charges unpaid .....	..	4	3
“ “ “ had the degree postponed to await necessary lapse of time from conferral of Bachelor's degree .....	..	3	1
“ “ “ made a sufficient record but did not apply ..	..	3	5
Total number who completed work	— 30	— 158	—157
Of the rest there died .....	..	1	..
“ “ “ “ withdrew from the School before the end of the year	6	10	13
“ “ “ “ failed because of incomplete or unsatisfactory records	14	58	55
“ “ “ “ “ “ “ French condition	1	2	3
“ “ “ “ “ “ “ German condition	1	2	2
“ “ “ “ “ “ “ both French and German conditions ....	..	..	2
“ “ “ “ “ “ “ other conditions	1	1	1
“ “ “ “ were not admitted to candidacy because of amount of outside work .....	..	..	1
Total number who did not complete work	— 23	— 74	— 77
	53	232	234

The increase of the tuition fee in the Faculty of Arts and Sciences to \$250 will fall with special weight upon the Graduate School of Arts and Sciences, which henceforth has the highest fee of any Graduate School in the country, and, with one exception, considerably the highest. The change is likely to affect particularly students from a distance, already suffering from the increased cost of transportation. It is noteworthy that the requests for loans have steadily increased in the last few months.

During the year the Administrative Board has given special consideration to efforts to improve the use of English by Graduate Students. Deficiencies in the use of English are far too common in American universities, and the nature of graduate instruction in many subjects fails to reveal such cases of weakness in the early years of advanced study, so that it frequently happens that the Doctor's dissertation is the first considerable piece of written work which the student has occasion to present. Both instructors and students have been notified that the Administrative Board regards it as of the highest importance that Graduate Students should cultivate clear and accurate expression in all written and oral exercises, and a special adviser for Graduate Students has been designated by the Committee on the Use of English by Students.

COMMITTEE ON INSTRUCTION

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present a report on the work of the Committee on Instruction under the Faculty of Arts and Sciences for the academic year 1920–21.

Instruction in 1920–21

With the following list of courses of instruction that were actually given under the authority of the Faculty, I print a statement of the number and the classification of the students in each course. The figures are those officially returned to the Recorder by the several instructors at the close of the academic year. The abbreviations are those ordinarily used in such lists: *Se.*, Senior; *Ju.*, Junior; *So.*, Sophomore; *Fr.*, Freshman; *Sp.*, Special; *uC.*, Unclassified; *ocC.*, Candidate for the Bachelor's degree out-of-course; *Gr.*, Graduate School of Arts and Sciences; *G.B.*, Graduate School of Business Administration; *Di.*, Divinity; *And.*, Andover Theological Seminary; *L.*, Law School; *Me.*, Medical School; *S.A.*, School of Architecture; *L.A.*, School of Landscape Architecture; *B.I.*, Bussey Institution; *E.*, Engineering School; *S.P.H.*, School of Public Health; *Ext.*, Extension; *R.*, Radcliffe College; *E.T.S.*, Episcopal Theological School; *B.U.*, Boston University; *N.T.I.*, Newton Theological Institute; *Instr.*, Instructor; *Gr. Ed.*, Graduate School of Education.

GROUP I

SEMITIC LANGUAGES AND HISTORY

For Undergraduates and Graduates: —

- E1. Professor KELLNER. — Hebrew. Harper's Elements of Hebrew. Harper's Introductory Hebrew Method and Manual. Selections from the prose narratives of the Old Testament.
1 Gr., 2 Se., 3 Ju., 1 So., 2 Di. Total 9.
2. Professor LYON. — Hebrew. Syntax. Extensive reading in the Old Testament.
1 Se., 4 Ju., 1 Di. Total 6.
- 4a ¹hf. Professor LYON. — The Old Testament as History and as Literature. To the Babylonian Exile, 586 B.C.
1 Se., 9 Ju., 2 So., 1 uC., 2 ocC., 1 Di. Total 16.
- 4b ²hf. Professor LYON. — The Old Testament as History and as Literature. From the Babylonian Exile to the Destruction of Jerusalem by the Romans in 70 A. D.
6 Se., 10 Ju., 2 So., 2 ocC., 2 uC. Total 22.

8. Dr. WOLFSON. — Post-Biblical Hebrew. Selections from the Talmud, Midrash, and Biblical commentaries. 1 Ju., 1 ocC. Total 2.
- 9^{2hf}. Dr. WOLFSON. — Jewish Literature and Life from the Second Century to the End of the Twelfth Century. 2 Gr., 3 Ju., 1 So., 5 uC. Total 11.
22. Dr. WOLFSON. — Hebrew. Selections from Mediaeval and Modern Authors. Hebrew Composition. 2 Gr., 2 Se., 3 Ju., 1 Fr., 1 ocC. Total 9.
- Primarily for Graduates: —*
- A6. Professor ARNOLD. — Religion of Israel. History of the religious ideas and institutions of Israel from the earliest times to the Maccabean Age. 3 Gr., 2 And., 3 Di., 2 E.T.S. Total 10.
- †11. Professor LYON. — Assyrian (second course). Selections from the historical, poetical, and legal writings. 1 Gr. Total 1.
- †13. Professor JEWETT. — Arabic. Socin's Grammar; Brünnow's Chrestomathy. 4 Gr., 1 Fr., 1 ocC. Total 6.
- †14. Professor JEWETT. — Arabic (second course). De Goeje's edition of Wright's Grammar; selections from the Qorân, the Hadîth, and classical writers on geography and history. 2 Gr., 1 Ju., 1 R. Total 4.
19. Professors JEWETT and LYON. — Syriac (second course). Nöldeke's Syriac Grammar; selections from Syriac prose of the classical period. 2 Gr. Total 2.
- 25^{1hf}. Dr. WOLFSON. — Spinoza and Mediaeval Jewish Philosophy. A study of the *Ethica* and the *Tractatus theologico-politicus* in the light of their Jewish philosophical antecedents. (This course is the same as Philosophy 27^{1hf}.) 3 Gr. Total 3.

INDIC PHILOLOGY

For Undergraduates and Graduates: —

- 1a^{1hf}. Professor LANMAN. — Sanskrit in relation to English and Latin and Greek. 4 Gr. Total 4.
- 1b^{2hf}. Professor LANMAN. — Sanskrit in relation to English and Latin and Greek (continued). Reading of classical texts (Lanman's Reader). Selections from the epic poems and the fable. Bhagavad-Gītā. 3 Gr. Total 3.

Primarily for Graduates: —

- †4^{1hf}. Professor LANMAN. — Pāli. Selections from the Sacred Books of Buddhism: Andersen's Reader. Legends of the Buddhist Saints (Harvard Oriental Series, vols. 28-30). 2 Gr., 1 uC. Total 3.
- †5^{2hf}. Professor LANMAN. — Pāli (continued). The Sacred Books of Buddhism. Dialogues of the Buddha (selected from the Dīgha Nikāya). 2 Gr., 1 uC. Total 3.
9. Professor WOODS. — Philosophical Sanskrit. Yoga System. Patañjali's Sūtras, with the Bhāṣhya and the Vārttika, and with the Commentary of Vāchaspati-Mishra. 3 Gr., 1 uC. Total 4.

Course of Special Study

- †20c. Professor LANMAN. — (Sanskrit Conference.) Rapid reading and discussion of Sanskrit texts; The Various Ways to Salvation (Prasthāna-Bheda); select Upanishads (Isha, Kena, Katha, Prashna, and Munda); The Compend of All the Systems (Sarva-Darshana-Sangraha).
2 Gr., 1 uC., 1 Instr. Total 4.

THE CLASSICS

Primarily for Undergraduates: —

GREEK

- G. Associate Professor C. N. JACKSON. — Course for Beginners.
1 Gr., 1 Ju., 4 So., 13 Fr., 3 uC., 1 ocC., 1 Sp. Total 24.
- A. Asst. Professor HACK. — Greek Literature. Homer: Iliad, Odyssey; Herodotus. 1 Gr., 3 Ju., 4 So., 8 Fr., 2 uC. Total 18.
- B. Professor GULICK, Associate Professor POST, and Dr. GREENE. — Greek Literature. Plato; Lyric Poetry; Euripides. Lectures on the History of Greek Literature.
1 Gr., 3 Ju., 3 So., 10 Fr., 1 uC., 1 Sp. Total 19.
- E hf. Dr. GREENE. — Greek Prose Composition (first course).
1 Ju., 1 So., 1 uC. Total 3.
2. Associate Professors C. N. JACKSON and POST. — Greek Literature. Aristophanes; Thucydides; Aeschylus; Sophocles; Euripides.
2 Gr., 3 Ju., 5 So., 1 ocC., 1 uC. Total 12.
- 3 hf. Dr. GREENE. — Greek Prose Composition (second course).
1 So., 1 Ju. Total 2.

LATIN

- A. Dr. GREENE. — Cicero and Virgil. 8 Fr. Total 8.
- B. Professors CLIFFORD H. MOORE and E. K. RAND, Associate Professor JACKSON, and Asst. Professor HACK. — Latin Literature. Livy; Plautus; Terence; Horace, and other Latin Poets.
3 Ju., 57 Fr., 1 uC., 1 ocC. Total 62.
- E hf. Dr. GREENE. — Latin Composition (first course). Translation of English narrative. 1 Ju., 2 So., 1 Fr. Total 4.
1. Professor A. A. HOWARD. — Latin Literature. Suetonius, Tacitus; Pliny, Martial. 1 Se., 1 Ju., 6 So., 3 uC., 1 ocC. Total 12.
- 3 hf. Asst. Professor HACK. — Latin Composition (second course).
1 Ju., 3 So. Total 4.

For Undergraduates and Graduates: —

GREEK

8. Professor GULICK. — Plato (Republic); Aristotle (Ethics); Survey of Greek Philosophy from Thales to Aristotle.
4 Gr., 1 Se., 6 Ju., 1 So., 1 ocC. Total 13.
- 7 hf. Associate Professor JACKSON. — Greek Prose Composition (third course). 3 Gr. Total 3.

12. Professor WEIR SMYTH. — History of Classical Greek Literature.
4 Gr., 1 ocC. Total 5.
10. Professor GULICK. — A Survey of Greek Civilization.
15 Se., 26 Ju., 14 So., 1 uC., 7 ocC., 1 Sp. Total 64.
- 14 ²/_{hf}. Professor CLIFFORD H. MOORE. — Philosophy and Religion in Greek Literature before Plato. 2 Gr., 3 Se., 9 Ju., 2 ocC., 1 Sp. Total 17.

LATIN

8. Professors CLIFFORD H. MOORE and E. K. RAND. — Latin Literature. Tibullus, Propertius, Juvenal; Cicero, Lucretius.
4 Gr., 2 Se., 6 Ju., 2 Sp. Total 14.
- 7 ^{hf}. Professor E. K. RAND. — Latin Composition (third course).
4 Gr. Total 4.
12. Professor A. A. HOWARD. — History of Latin Literature.
7 Gr., 3 Se., 3 Ju., 1 ocC. Total 14.

CLASSICAL PHILOLOGY

Primarily for Graduates: —

- 25 ¹/_{hf}. Associate Professor C. N. JACKSON. — Introduction to the Interpretation and Criticism of Classical Authors. History of Classical Studies.
5 Gr. Total 5.
- ‡43 ²/_{hf}. Associate Professor POST. — Sophocles. 7 Gr. Total 7.
- ‡40 ¹/_{hf}. Professor WEIR SMYTH. — Greek Literature of the Alexandrian Age.
7 Gr. Total 7.
- ‡42 ²/_{hf}. Professor WEIR SMYTH. — Greek Literature of the Roman Age.
8 Gr. Total 8.
- ‡26 ²/_{hf}. Professor GULICK. — Theocritus, Bion, Moschus, and Herondas. Greek Pastoral Poetry with some study of the Mime.
4 Gr., 1 ocC. Total 5.
- 39 ¹/_{hf}. Professor A. A. HOWARD. — The Reigns of Claudius and Nero.
2 Gr. Total 2.
- ‡Comparative Literature 5. (See Comparative Literature, p. 79.)
- ‡73 ²/_{hf}. Asst. Professor HACK. — Cicero. 2 Gr., 5 Ju. Total 7.
- ‡22 ¹/_{hf}. Professor CLIFFORD H. MOORE. — Latin Grammar. Sounds and inflections. 6 Gr. Total 6.
- 49 ²/_{hf}. Professor A. A. HOWARD. — Latin Palaeography. 8 Gr. Total 8.
76. Professor ROPES. — Acts of the Apostles. 1 Di. Total 1.

20. *The Seminary of Classical Philology*

Professors WEIR SMYTH and E. K. RAND, Directors for 1920–21. — Training in philological criticism and research. Text-criticism and interpretation of Greek and Latin authors: Aeschylus and the Transmission of the Text of Latin authors in the Early Middle Ages. 4 Gr. Total 4

CLASSICAL ARCHAEOLOGY

For Undergraduates and Graduates: —

- 1a ¹/_{hf}. Professor CHASE. — Greek Archaeology.
1 Gr., 2 Se., 1 Ju., 1 Fr. Total 5

1b ²hf. Professor CHASE. — Etruscan and Roman Archaeology.

2 Gr., 2 Ju., 2 Fr. Total 6.

ENGLISH

ENGLISH COMPOSITION AND PUBLIC SPEAKING

Primarily for Undergraduates: —

A. Professors BRIGGS and GREENOUGH, and Messrs. HERSEY, KEMPTON, COUES, NOYES, AUSLANDER, WILLIAMS, BACON, CONNELLY, GEIST, HOFFMAN, and WOOD. — Rhetoric and English Composition, Oral and Written.

1 Ju., 21 So., 509 Fr., 7 uC., 1 ocC., 8 Sp., 29 E. Total 576.

E. Mr. KEMPTON. — Special Instruction in English for Foreign Students.

1 Gr.Ed., 1 So., 2 uC., 5 Sp., 4 E. Total 13.

D ¹ or ²hf. Asst. Professor WEBSTER. — English Composition.

7 Se., 20 Ju., 31 So., 32 Fr., 1 uC., 1 ocC., 4 E., 2 Sp. Total 98.

31. Professor HURLBUT. — English Composition.

6 Se., 14 Ju., 5 So., 2 Fr., 5 uC., 3 ocC., 1 E. Total 36.

6. Mr. PIER. — English Composition.

2 G.B., 31 Se., 79 Ju., 102 So., 14 Fr., 36 uC., 15 ocC., 5 Sp., 1 E., 1 L. Total 286.

22. Dr. MAYNADIER, assisted by Mr. WHITNEY. — English Composition.

12 Se., 26 Ju., 19 So., 1 Fr., 3 uC., 8 ocC., 1 Sp. Total 70.

B. Associate Professor WINTER. — Fundamentals of Public Speaking.

5 Fr., 3 uC., 1 ocC. Total 9.

10 ¹ or ²hf. Associate Professor WINTER, assisted by Messrs. CAWLEY and PACKARD. — Public Speaking. Vocal training; extemporaneous discussion.

38 Se., 80 Ju., 83 So., 7 Fr., 34 uC., 13 ocC., 6 Sp., 23 E. Total 284.

10b ¹hf. Associate Professor WINTER. — Vocal Interpretation of Literature.

2 Gr., 2 Se., 5 Ju., 4 So., 2 Fr., 2 uC. Total 17.

10c ²hf. Associate Professor WINTER. — Masterpieces of Public Address.

2 Gr., 3 Se., 8 Ju., 8 So., 2 Fr., 8 uC., 1 ocC., 2 E. Total 34.

18. Professor H. B. HUNTINGTON (Brown University). — The Forms of Public Address.

1 Gr., 1 Se., 3 Ju., 1 So., 1 uC. Total 7.

For Undergraduates and Graduates: —

12. Associate Professor COPELAND. — English Composition.

2 Gr., 5 Se., 10 Ju., 7 So., 3 uC., 1 ocC., 2 Sp. Total 30.

Primarily for Graduates: —

5. Professor BRIGGS. — English Composition (advanced course).

16 Gr., 8 Se., 7 Ju., 1 So., 3 ocC., 1 Sp., 1 L.A. Total 37.

47. Professor BAKER. — English Composition. The Technique of the Drama.

6 Gr., 1 ocC., 4 Sp. Total 11.

47a. Professor BAKER. — The Technique of the Drama (advanced course).

1 Gr., 2 ocC., 2 Sp. Total 5.

ENGLISH LANGUAGE AND LITERATURE

Primarily for Undergraduates: —

28. Professors BRIGGS, KITTREDGE, BAKER, HURLBUT, LOWES, and Mr. MURRAY. — History and Development of English Literature in Outline.

122 Fr., 5 uC., 1 ocC., 2 Sp. Total 130.

41. Mr. J. G. HART, assisted by Mr. WHITE. — History of English Literature from the Elizabethan times to the present.
31 Se., 54 Ju., 45 So., 1 Fr., 17 uC., 5 ocC. Total 153.

For Undergraduates and Graduates: —

3a ¹hf. Asst. Professor WEBSTER. — Anglo-Saxon.

22 Gr., 6 Se., 7 Ju. Total 35.

1. Professors LOWES and F. N. ROBINSON. — Chaucer.

17 Gr., 7 Se., 17 Ju., 6 So., 1 Fr., 1 uC., 2 ocC. Total 51.

32. Professor LOWES. — English Literature, exclusive of the Drama, from the beginning of the Sixteenth Century until the Restoration.

22 Gr., 14 Se., 16 Ju., 25 So., 5 uC., 2 ocC. Total 84.

2. Professor KITTREDGE. — Shakspeare.

20 Gr., 27 Se., 74 Ju., 39 So., 10 uC., 5 ocC., 1 Sp., 1 Di., 1 And., 1 N.T.I.
Total 179.

11a ¹hf. Asst. Professor WEBSTER. — Bacon.

3 Gr., 15 Se., 32 Ju., 20 So., 2 Fr., 3 uC. Total 75.

11b ²hf. Professor LOWES. — Milton.

9 Gr., 5 Se., 24 Ju., 20 So., 1 Fr., 7 uC., 1 Sp., 1 E. Total 68.

64 ¹hf. Professor HURLBUT. — Pope.

19 Se., 32 Ju., 10 So., 2 Fr., 1 uC., 5 ocC., 1 Sp., 1 L. Total 71.

52 ²hf. Associate Professor COPELAND. — Johnson and his Circle.

5 Gr., 8 Se., 42 Ju., 38 So., 11 uC., 3 ocC., 1 Sp., 1 E., 1 And. Total 110.

29a ¹hf. Dr. MAYNADIER. — The English Novel from Richardson to Scott.

7 Gr., 14 Se., 18 Ju., 1 uC., 3 ocC., 1 Sp. Total 44.

29b ²hf. Dr. MAYNADIER. — The English Novel from Dickens to the Present Time.

6 Gr., 15 Se., 22 Ju., 2 So., 2 uC., 2 ocC., 3 Sp. Total 52.

48 ²hf. Professor BRIGGS. — Browning.

15 Gr., 12 Se., 16 Ju., 4 So., 5 uC., 1 ocC., 1 Sp. Total 54.

33. Professor GREENOUGH and Mr. LITTLE. — American Literature.

6 Gr., 19 Se., 50 Ju., 35 So., 1 Fr., 12 uC., 1 ocC., 1 Sp. Total 125.

Primarily for Graduates: —

19 ²hf. Professor F. N. ROBINSON. — Historical English Grammar.

19 Gr., 1 Se. Total 20.

3b ²hf. Professor KITTREDGE. — Anglo-Saxon. *Béowulf*.

21 Gr., 3 Se., 1 Ju., 1 ocC. Total 26.

4. Professor F. N. ROBINSON and Asst. Professor WEBSTER. — Early English. English Literature from 1200 to 1450. Mätzner's *Altenglische Sprachproben*.

26 Gr., 1 ocC. Total 27.

Comparative Literature 26 ¹hf. See Comparative Literature, p. 80.

44 ²hf. Professor KITTREDGE. — Chaucer.

5 Gr., 1 ocC. Total 6.

14. Professor BAKER. — The Drama in England from 1590 to 1642.

22 Gr., 4 Se., 4 Ju., 1 ocC., 1 Sp. Total 32.

50 ¹hf. Professor GREENOUGH. — Dryden and his Time. 12 Gr., 1 ocC. Total 13.

24 ¹hf. Professor LOWES. — Studies in the Poets of the Romantic Period.

24 Gr., 9 Se., 3 Ju., 1 So., 2 uC., 1 ocC., 1 L. Total 41.

Courses of Special Study

20. The Instructors in English held themselves ready to assist and advise competent Graduate Students who might propose plans of special study in the English language or literature. Such plans, however, must in each case have met the approval of the Department.

Professor ROBINSON.	2 Gr.	Total	2.
Professor KITTREDGE.	2 Gr.	Total	2
Professor BAKER.	1 Gr.	Total	1.
Professor LOWES.	12 Gr., 1 So.	Total	13.
Professor BABBITT.	1 Gr.	Total	1.
Professor GREENOUGH.	3 Gr.	Total	3.
Dr. MAYNADIER.	3 Gr.	Total	3

GERMANIC LANGUAGES AND LITERATURES

GERMAN

Primarily for Undergraduates: —

- A. Professor BIERWIRTH, Mr. BRIGGS, and Drs. PETTENGILL, HERRICK, STARCK, and BURKHARD. — Elementary Course.
13 Gr., 1 Se., 27 Ju., 35 So., 241 Fr., 72 uC., 8 E., 8 Sp. Total 405.
- B. Dr. HERRICK. — Elementary Course (counting as two courses).
1 Ju., 8 Fr., 6 uC. Total 15.
- 1a. Asst. Professor LIEDER and Mr. BRIGGS. — German Prose and Poetry.
1 Gr., 2 Ju., 21 So., 11 Fr., 6 uC., 1 E. Total 42.
- 1b. Dr. PETTENGILL and Dr. BURKHARD. — German Prose. Subjects in History, Biography, and Military Science.
2 Gr., 1 Se., 4 Ju., 7 So., 8 Fr., 9 uC., 1 Sp., 1 E. Total 33.
- 1c. Asst. Professor LIEDER and Dr. PETTENGILL. — German Scientific Prose. Subjects in Natural and Military Science.
1 Gr., 2 Se., 3 Ju., 5 So., 2 Fr., 1 Sp., 2 E. Total 16.
- F¹hf. Dr. STARCK. — Practice in speaking and writing German (first course).
2 Ju., 1 So., 1 Fr., 1 uC. Total 5.
- H²hf. Dr. STARCK. — Practice in speaking and writing German (second course).
4 Ju., 1 So., 2 Fr., 2 uC. Total 9.
- 2a. Professor VON JAGEMANN and Dr. STARCK. — Introduction to German Literature of the Eighteenth and Nineteenth Centuries. Lessing, Goethe, and Schiller. German ballads and lyrics.
1 Se., 9 Ju., 12 So., 15 Fr., 3 uC. Total 40.
3. Associate Professor W. G. HOWARD. — Schiller. *Der Dreissigjährige Krieg*; *Wallenstein*; *Maria Stuart*; *Die Jungfrau von Orleans*; *Die Braut von Messina*; *Gedichte*.
1 Se., 4 Ju., 1 So., 6 Fr., 2 uC., 1 ocC., 1 E. Total 16.
4. Professor WALZ. — Goethe. Works of the Storm and Stress Period; autobiographical works; poems; *Egmont*; *Iphigenie*; *Tasso*; *Faust*.
3 Se., 5 Ju., 4 So., 3 Fr., 5 uC. Total 20.

5. Asst. Professor LIEDER. — German Prose. Subjects in German History. Freytag; Below (Das ältere deutsche Städtewesen und Bürgertum); Richter (Quellenbuch); and Tombo (Deutsche Reden).

6 Se., 5 Ju., 3 So., 2 Fr., 1 uC. Total 17.

- 25 ¹/_{hf}. Associate Professor W. G. HOWARD. — History of German Literature in Outline.

1 Gr., 6 Se., 11 Ju., 1 So., 1 ocC. Total 20.

For Undergraduates and Graduates: —

- 18 ¹/_{hf}. Professor BIERWIRTH. — German Grammar and practice in writing German (advanced course).

1 So., 1 ocC. Total 2.

8. Professor WALZ. — German Literature in the Twelfth and Thirteenth Centuries. Nibelungenlied: Kudrun; Hartmann (Der arme Heinrich); Wolfram (Parzival); Walther von der Vogelweide. Translation into modern German.

3 Gr., 2 Se., 1 Ju. Total 6.

- 6 ¹/_{hf}. Professor BIERWIRTH. — German Literature of the Eighteenth Century to the death of Lessing.

5 Gr., 1 Ju., 1 ocC. Total 7.

- 7 ²/_{hf}. Professor BIERWIRTH. — German Literature of the Classic Period after Lessing.

3 Gr. Total 3.

Comparative Literature 8 and 10. (See Comparative Literature, p. 79.)

- 26a ¹/_{hf}. Associate Professor W. G. HOWARD. — German Literature in the first half of the Nineteenth Century. Kleist; Uhland; Heine.

1 Gr., 2 Se., 2 So., 1 uC. Total 6.

- 26b ²/_{hf}. Associate Professor W. G. HOWARD. — German Literature in the second half of the Nineteenth Century. The development of the novel and the drama.

4 Gr., 1 Ju., 1 So. Total 6.

Primarily for Graduates: —

- ‡13 ²/_{hf}. Associate Professor W. G. HOWARD. — The Dramatic Works of Friedrich Hebbel.

6 Gr., 2 Ju. Total 8.

- ‡12a ²/_{hf}. Professor VON JAGEMANN. — Gothic. Introduction to the Study of Germanic Philology. General introduction; phonology.

16 Gr., 2 R. Total 18.

- ‡12b ²/_{hf}. Professor von Jagemann. — Introduction to the study of Germanic Philology (continued).

4 Gr. Total 4.

SEMINARY COURSE

- ‡20a ¹/_{hf}. Professor WALZ. — Goethe in his Maturity.

5 Gr., 1 Se. Total 6.

ROMANCE LANGUAGES AND LITERATURES

FRENCH

Primarily for Undergraduates: —

- A. Asst. Professor HAWKINS, and Messrs. G. L. LINCOLN, GIFFORD, HORNI-CEK, BROOKS, HANSON, Dr. WASHBURN, and Mr. ELLIS. — Elementary Course. French Grammar, Translation, and Composition.

4 Gr., 1 Se., 6 Ju., 7 So., 45 Fr., 35 uC., 4 Sp., 6 E., 1 Di. Total 109.

- B. Dr. HERRICK. — Elementary Course (counting as two courses). French Grammar, Translation, and Composition.

1 Se., 1 Ju., 4 So., 6 Fr., 9 uC. Total 21.

1. Asst. Professor HAWKINS, and Messrs. G. L. LINCOLN, HANSON, and L. J. COOK. — French Prose and Poetry. Translation from French into English.
1 Gr., 1 Se., 14 Ju., 49 So., 46 Fr., 22 uC., 1 ocC., 1 Sp., 4 E. Total 139.
2. Asst. Professors WHITTEM, and Messrs. RAICHE, G. L. LINCOLN, GIFFORD, HORNICEK, BROOKS, and ELLIS. — French Prose and Poetry. Corneille; Racine; Molière; Victor Hugo; Alfred de Musset; Balzac; Flaubert; Daudet; Zola. Composition.
5 Se., 31 Ju., 83 So., 185 Fr., 20 uC., 3 ocC., 3 Sp., 1 E. Total 331.
3. Mr. RAICHE. — French Composition (elementary course).
4 Se., 13 Ju., 30 So., 32 Fr., 9 uC., 2 ocC., 1 Sp., 1 E. Total 92.
- 4¹hf. Asst. Professor MERCIER. — French Composition (intermediate course).
2 Gr., 2 G.B., 1 Se., 14 Ju., 17 So., 3 Fr., 2 uC., 1 ocC. Total 42.

For Undergraduates and Graduates: —

- 5²hf. Asst. Professor MERCIER. — French Composition (advanced course).
3 Gr., 9 Ju., 12 So., 3 Fr., 1 uC., 1 ocC. Total 29.
6. Professors GRANDGENT and FORD, Associate Professor ALLARD, Asst. Professors MORIZE, HAWKINS, and MERCIER, and Mr. RAICHE. — General View of French Literature.
1 Gr., 11 Se., 38 Ju., 60 So., 20 Fr., 12 uC., 4 ocC., 1 Sp. Total 147.
7. Associate Professor ALLARD. — French Literature in the Nineteenth Century.
4 Gr., 12 Se., 9 Ju., 4 So., 3 ocC. Total 32.
9. Professor WRIGHT. — French Literature in the Seventeenth Century.
2 Gr., 18 Se., 21 Ju., 5 So., 1 uC., 1 ocC. Total 48.
- 10²hf. Asst. Professor MERCIER. — The Social Background of French Literature.
8 Se., 8 Ju., 7 So., 4 Fr., 1 uC., 3 ocC., 1 E. Total 32.
16. Associate Professor ALLARD. — The French Comedy of Manners from 1850 to the Present Time.
1 Gr., 10 Se., 7 Ju., 5 So., 1 uC., 3 ocC. Total 27.
- 18 hf. Professor BABBITT. — Chateaubriand and the Beginnings of the French Romantic Movement.
1 Gr., 1 Se., 7 Ju., 1 Sp. Total 10.
- 30²hf. Professor HENRI GUY (University of Toulouse). The Sonnet in French Literature.
4 Se., 5 Ju., 1 uC., 1 ocC. — Total 11.

Comparative Literature 9. (See Comparative Literature, p. 79.)

Primarily for Graduates: —

- †13. Professor SHELDON. — History of French Literature prior to the Fourteenth Century.
5 Gr., 1 R. Total 6.
- †14. Professors SHELDON and FORD. — French Literature in the Fourteenth and Fifteenth Centuries.
8 Gr., 1 R. Total 9.
21. Professor WRIGHT. — French Literature in the Sixteenth Century. Origins of French Classicism.
6 Gr., 1 Ju., 1 So. Total 8.
- 23 hf. Professor WRIGHT. — Studies in the French Drama of the Seventeenth Century. Molière; Corneille; Racine.
2 Gr., 1 Se., 2 Ju., 1 ocC. Total 6.
- †24. Asst. Professor MORIZE. — Methods and Practices in the History of Literature.
4 Gr., 3 R. Total 7.

- 25²hf. Asst. Professor WHITTEM. — La Fontaine and the Fable in France.
1 Gr., 2 Ju., 1 So., 1 ocC. Total 5.

ITALIAN

Primarily for Undergraduates: —

1. Asst. Professor WESTON. — Italian Grammar, reading, and composition.
Modern Italian stories and plays.
3 Se., 13 Ju., 7 So., 6 Fr., 3 uC. Total 32.

For Undergraduates and Graduates: —

- 4²hf. Asst. Professor WESTON. — General View of Italian Literature.
4 Ju., 1 So., 1 Fr., 1 uC., 1 ocC. Total 8.
5. Asst. Professor WESTON. — Modern Italian Literature.
1 Se., 3 Ju., 1 Fr., 1 uC., 1 Sp. Total 7.
10. Professor GRANDGENT. — The Works of Dante, particularly the Vita Nuova and the Divine Comedy.
6 Gr., 2 Ju., 1 So., 1 uC., 1 Sp. Total 11.

SPANISH

Primarily for Undergraduates: —

1. Mr. RIVERA, and MESSRS. G. L. LINCOLN, and HORNICEK, Dr. WASHBURN, and Mr. MAÑACH. — Spanish Grammar, reading, and composition. Modern Spanish novels and plays.
2 Gr., 9 Se., 26 Ju., 53 So., 56 Fr., 15 uC., 6 ocC., 11 E., 2 Sp. Total 180.
- 7¹hf. Asst. Professor WHITTEM. — Spanish Composition (elementary course).
1 Gr., 1 G.B., 11 Se., 15 Ju., 5 So., 6 Fr., 1 uC., 3 ocC., 2 E. Total 45.

For Undergraduates and Graduates: —

- 8²hf. Mr. RIVERA. — Spanish Composition and Conversation (advanced course).
1 Gr., 7 Se., 12 Ju., 3 So., 5 Fr., 1 E. Total 29.
- 9 hf. Mr. RIVERA. — Spanish Composition and Conversation.
4 Gr., 1 G.B., 2 Se., 2 Fr., 1 uC., 2 ocC., 1 L. Total 13.
- 4 hf. Professor FORD. — General View of Spanish Literature.
3 Gr., 4 Se., 11 Ju., 1 Fr., 1 ocC. Total 20.
5. Professor FORD, Asst. Professor WHITTEM, and Mr. RIVERA. — Spanish and Spanish-American Prose and Poetry from the Eighteenth Century to the Present Time.
1 Gr., 7 Se., 19 Ju., 12 So., 10 Fr., 4 uC., 2 ocC. Total 55.
2. Professor FORD, Asst. Professor WHITTEM, and Mr. RIVERA. — Spanish Literature of the Sixteenth and Seventeenth Centuries. Cervantes; Lope de Vega; Calderón.
1 Gr., 6 Se., 18 Ju., 8 So., 1 uC., 1 ocC. Total 35.

Primarily for Graduates: —

- †3. Professor FORD. — Early Spanish. The Poem of the Cid. Spanish literature to the sixteenth century. 15 Gr., 1 uC., 4 R. Total 20.

ROMANCE PHILOLOGY

Primarily for Graduates: —

3. Professor SHELDON. — Old French. Phonology and inflections. The oldest texts. La Chanson de Roland; Chrétien de Troyes; Aucassin et Nicolette. 31 Gr. Total 31.

- ‡4. Professor GRANDGENT. — Provençal. 7 Gr., 1 R. Total 8.
 ‡7. Professor SHELDON. — Anglo-French and the French Element in English. 2 Gr. Total 2.

Courses of Special Study

20. The Instructors in Romance Languages held themselves ready to assist and advise competent Graduate Students in plans of special study, linguistic or literary. 3 Gr. Total 3.
 ‡20a hf. Professor FORD. — Problems in the Syntax of the Romance Languages. 5 Gr., 1 R. Total 6.
 ‡20b. Asst. Professor MORIZE. — The Preparation of a Critical Edition. 1 Gr., 1 R. Total 2.

‡Seminary

Students and instructors met once a week, for research in special fields. During 1920–21, special topics were discussed under the direction of Professor SHELDON and Professor FORD.

CELTIC

Primarily for Graduates: —

- 1 ¹hf. Professor F. N. ROBINSON. — Old Irish. Grammar and interpretation of texts. Thurneysen's Handbuch des Altirischen. General introduction to Celtic philology. 3 Gr. Total 3.
 2 ²hf. Professor F. N. ROBINSON. — Middle Irish. — Windisch's Irische Texte. 3 Gr. Total 3.

SLAVIC LANGUAGES

For Undergraduates and Graduates: —

- 1a. Professor WIENER. — Russian. 3 Gr., 1 Se., 2 Ju., 1 B. U. Total 7.
 1b. Professor WIENER. — Russian Literature of the Nineteenth Century. Puskín; Gogol; Turgenev; Tolstoy. 2 Ju. Total 2.
 2a. Professor WIENER. — Polish. (See Comparative Literature 20k, p. 80.)
 6a. Professor WIENER. — Bohemian. 1 Ju., 1 So. Total 2.

COMPARATIVE LITERATURE

For Undergraduates and Graduates: —

9. Professor BABBITT. — Rousseau and his Influence. 5 Gr., 7 Se., 8 Ju., 3 So., 1 ocC. Total 24.
 10 ²hf. Professor WALZ. — The Influence of English Literature upon German Literature in the Eighteenth Century. 3 Gr., 4 Se., 10 Ju., 5 So., 1 uC. Total 23.
 19 ¹hf. Professor BAKER. — The Forms of the Drama. 13 Gr., 38 Se., 58 Ju., 29 So., 2 Fr., 7 uC., 12 ocC., 2 Sp. Total 161.
 8 ¹hf. Professor WALZ. — Goethe's Faust; with a Study of Kindred Dramas in European Literature. 2 Gr., 5 Se., 3 Ju., 1 So., 2 uC., 1 ocC. Total 14.

Primarily for Graduates: —

- ‡5 ¹hf. Professor E. K. RAND. — The History of Classical Culture in the Middle Ages. 8 Gr., 1 Gr.Ed., 2 Ju., 2 R., 2 Instr. Total 15.

22. Professor BABBITT. — Literary Criticism since the Sixteenth Century.
16 Gr., 2 Se., 1 Ju., 1 uC. Total 20.
- 26 *hf*. Professor KITTREDGE. — The Early English Metrical Romances.
13 Gr. Total 13.
- 35 ²*hf*. Asst. Professor WEBSTER. — Life in the Middle Ages, as illustrated by
Contemporary Literature. 1 Se. Total 1.

COURSES OF SPECIAL STUDY

20. Original Investigation in Special Topics. Students consulted the
Chairman of the Department. 2 Gr., 1 Sp. Total 3.
- 20*i*. Professor GRANDGENT. — Italian. 1 Gr. Total 1.
- 20*k*. Professor WIENER. — Polish. 2 So. Total 2.

COMPARATIVE PHILOLOGY

Primarily for Graduates: —

- ‡2*a hf*. Professor GRANDGENT. — General Introduction to Linguistic Science.
Phonetics. The pronunciation of English, French, German, and Latin.
13 Gr., 1 ocC., 3 R. Total 17.

THE FINE ARTS

For Undergraduates and Graduates: —

- 1*c hf*. Professor CHASE, assisted by Mr. W. W. S. COOK and Mr. OPDYCKE. —
The History of Ancient Art.
1 Gr., 33 Se., 39 Ju., 34 So., 11 Fr., 3 uC., 10 ocC., 3 Sp., 1 E. Total 135.
- 1*d hf*. Asst. Professor EDGELL, assisted by Mr. W. W. S. COOK, and Mr. OP-
DYCKE. — The History of Mediaeval, Renaissance, and Modern Art.
3 Gr., 26 Se., 43 Ju., 37 So., 10 Fr., 16 uC., 7 ocC., 2 E. Total 144.
- 1*f*. Professor PRAY. — Principles of Landscape Architecture, illustrated
by a study of examples. 3 Ju., 1 uC., 1 ocC. Total 5.
- 2*a*. Mr. MOWER, assisted by Mr. LARKIN. — Freehand Drawing.
1 Se., 5 Ju., 4 So., 8 Fr., 4 uC., 2 Sp., 1 L.A. Total 25.
- 2*b*. Mr. MOWER, assisted by Mr. LARKIN. — Freehand Drawing (ad-
vanced course). 1 Gr., 1 Se., 6 Ju., 1 So., 1 Fr., 3 uC., 1 ocC. Total 14
- 2*c*. Mr. MOWER, assisted by Mr. LARKIN. — Drawing and Painting (ad-
vanced course). 4 Se., 5 Ju., 4 So. Total 13.
- 2*f hf*. Mr. FROST. — Perspective. The theory of perspective and its applica-
tion to architectural subjects. 1 Gr., 1 Se., 2 Ju., 1 ocC. Total 5.
- 3*a*. Mr. C. HOWARD WALKER. — History of the Ancient and Early Me-
diaeval Styles of Architecture.
2 Se., 7 Ju., 2 So., 2 uC., 4 S.A., 1 L.A. Total 18.
- 3*b hf*. Professor CHASE. — History of Greek Sculpture.
1 Gr., 1 Se., 4 Ju., 1 Fr., 1 uC., 2 ocC., 1 Sp. Total 11.
- 4*a hf*. Mr. C. HOWARD WALKER. — History of the Gothic Styles of Archi-
tecture. 1 Se., 4 Ju., 1 ocC., 9 S.A., 1 L.A. Total 16.
- 5*a hf*. Mr. C. HOWARD WALKER. — History of Renaissance and Modern
Architecture. 4 Se., 8 Ju., 1 uC., 11 S.A., 1 L.A. Total 25.

- 5e ¹hf. Dr. WINSHIP. — The History of the Printed Book.
2 Gr., 3 Se., 3 Ju., 1 So., 3 ocC. Total 12.
- 5h ¹hf. Asst. Professor EDGELL. — The History of Florentine Painting.
3 Se., 5 Ju., 2 ocC. Total 10.
- 5m ²hf. Asst. Professor SACHS. — The History of German Painting.
3 Gr., 2 Se., 4 Ju., 1 ocC., 1 Instr. Total 11.
- 5n ¹hf. Asst. Professor SACHS. — The History of French Painting.
6 Se., 7 Ju., 2 So., 3 ocC. Total 18.
- 8a ²hf. Mr. MOWER, assisted by Mr. LARKIN. — Theory of Design.
2 Se., 2 Ju., 1 So., 1 Sp. Total 6.
- 9a. Associate Professor POST. — Art and Culture of Italy in the Middle Ages and the Renaissance.
1 Gr., 4 Se., 10 Ju., 2 So., 2 ocC., 1 Sp. Total 20.
- 10a. Mr. K. J. CONANT, with occasional instruction by Asst. Professor HUBBARD. — Principles of Architectural Design and their Application.
6 S.A. Total 6.
- 10b. Mr. K. J. CONANT, with occasional criticisms by Associate Professor HUMPHREYS. — Elementary Architectural Design. Elements of Architectural Form. The Orders. Introductory Problems in Architectural Design.
2 Se., 3 Ju., 1 uC., 2 ocC., 5 S.A. Total 13.

Primarily for Graduates:—

Courses of Special Study

- 20e. Asst. Professor EDGELL. — History of Mediaeval Art. 1 Gr. Total 1.
- 20f. Associate Professor POST and Mr. E. W. FORBES. — History of Italian Art.
1 Gr., 1 Ju. Total 2.
- 20i. Dr. WINSHIP. — History of Printing. 1 Sp. Total 1.

MUSIC

For Undergraduates and Graduates:—

1. Mr. HEILMAN. — Harmony, the Grammar of Music.
1 Gr., 4 Ju., 1 So., 12 Fr., 1 uC., 1 Sp., 1 E., 1 And. Total 22.
- 1a. Mr. BALLANTINE and Mr. BENNETT. — Advanced Harmony and Harmonic Analysis.
1 Se., 1 Ju., 5 So., 3 Sp. Total 10.
2. Associate Professor DAVISON. — Counterpoint.
1 Gr., 2 Ju., 1 So., 1 ocC. Total 5.
3. Asst. Professor E. B. HILL. — History of Music from the Time of Bach to the Present Day.
2 Gr., 26 Se., 56 Ju., 44 So., 6 Fr., 2 uC., 10 ocC., 2 Sp. Total 148.
- 3a. Associate Professor DAVISON. — The History and Development of Choral Music.
3 Gr., 5 Se., 4 Ju., 1 ocC. Total 13.
4. Mr. BALLANTINE and Mr. BENNETT. — The Appreciation of Music; analytical study of masterpieces from the point of view of the listener.
2 Gr., 13 Se., 22 Ju., 27 So., 3 Fr., 9 uC., 5 ocC., 1 Sp. Total 82.

Primarily for Graduates:—

- ‡4b hf. Asst. Professor E. B. HILL. — D'Indy, Fauré, Debussy.
2 Se., 1 Ju., 1 R. Total 4.

5. Mr. HEILMAN. — Canon and Fugue.
1 Se., 1 Ju., 1 So., 1 ocC., 1 Sp. Total 5.
- †6. Asst. Professor E. B. HILL. — Instrumentation.
2 Gr., 1 Se., 1 Ju., 2 So., 1 ocC., 1 Sp., 6 R. Total 14.

COURSE IN ORIGINAL COMPOSITION

20. Advanced Work in Original Composition. 1 Gr. Total 1.

GROUP II

HISTORY OF SCIENCE

Primarily for Graduates: —

- 2^{2hf}. Dr. SARTON. — Introduction to the History of Science.
1 Gr., 5 Ju., 1 So., 2 uC., 4 E. Total 13.

PHYSICAL SCIENCES

PHYSICS

Primarily for Undergraduates: —

- B. Professor HALL and Mr. PHINNEY. — Elementary Physics.
1 Gr., 1 Se., 9 Ju., 23 So., 31 Fr., 7 uC., 2 ocC., 3 Sp., 1 E., 1 And.
Total 79.
- C. Associate Professor SAUNDERS, Drs. KEMBLE and SCHAEFFER, and Messrs. DUNCAN, BALDES, BRADSHAW, and MILLER. — Experimental Physics. — Mechanics, Sound, Heat, Light, Magnetism, and Electricity.
2 Gr., 5 Se., 25 Ju., 67 So., 57 Fr., 11 uC., 4 ocC., 1 Sp., 44 E. Total 216.
- 1^{1hf}. Professor LYMAN. — Modern Developments in Electricity. The Evidence for Existence of the Electron and Kindred Subjects.
5 Se., 9 Ju., 8 So., 1 E. Total 23.
- 2a^{1hf}. Professor LYMAN. — Light. The Elements of Wave Phenomena, Optical Instruments, Color, and Photography.
2 Gr., 1 Se., 10 Ju., 1 So., 1 Fr. Total 15.
- 2b^{2hf}. Professor LYMAN. — Physical Optics. — Interference, Diffraction, Polarization, Crystal Optics, and Topics in Spectroscopy.
1 Gr., 1 Ju., 2 So. Total 4.

For Undergraduates and Graduates: —

- 3a^{1hf}. Asst. Professor CHAFFEE and Mr. FIELD. — Electricity and Direct Current Electrical Measurements.
1 Gr., 4 Se., 8 Ju., 4 So., 1 uC., 2 Sp., 3 E. Total 23.
- 3b^{2hf}. Asst. Professor CHAFFEE and Mr. FIELD. — Electromagnetism and Elementary Principles of Alternating Currents.
1 Gr., 2 Se., 8 Ju., 4 So., 2 Sp., 3 E. Total 20.
- 12^{2hf}. Professor DUANE. — Radioactivity and X-Rays. Special Reference to Modern Theories of Matter.
4 Gr., 3 Se., 19 Ju., 9 So., 2 uC., 1 ocC., 2 E. Total 40.
- 14^{2hf}. Associate Professor SAUNDERS. — Acoustics, with special application to Music and to Architecture.
1 Se., 2 So., 1 uC., 1 ocC., 1 E. Total 6.

- 4a ¹/_{hf}. Professor PIERCE and Asst. Professor CHAFFEE. — Electric Oscillations and their Applications to Radio Telegraphy and Radio Telephony.
2 Gr., 2 Se., 3 Ju. Total 7.
- 4b ²/_{hf}. Professor PIERCE, Asst. Professor CHAFFEE, and Mr. FIELD. — Electric Oscillations, Electric Waves, and Radio-frequency Measurements.
2 Gr., 2 Se., 3 Ju. Total 7.
- 4c ¹/_{hf}. Professor PIERCE. — Electric Waves and Radio Telegraphy.
4 Gr., 2 Se., 1 Sp. Total 7.
- 17 ¹/_{hf}. Asst. Professor CHAFFEE. — Electron Tubes. Amplifiers, Detectors, and Oscillators.
4 Gr., 1 Se., 3 Ju. Total 8.
- 6b ²/_{hf}. Professor HALL. — Elementary Thermodynamics.
3 Gr., 1 Se., 3 Ju., 1 uC., 1 ocC. Total 9.
5. Dr. KEMBLE. — Electromagnetic Theory of Light.
5 Gr., 1 Ju., 1 Sp. Total 7.

Primarily for Graduates: —

- ‡15 ²/_{hf}. Professor PIERCE. — Radiation and Applications of the Quantum, Theory to Radiation.
4 Gr., 1 Sp., 1 R. Total 6.
- ‡7 ²/_{hf}. Professor HALL. — Kinetic Theory of Gases. 3 Gr., 1 R. Total 4.
- 16a ¹/_{hf}. Dr. KEMBLE. — Quantum Theory with Applications to Series Spectra, Atomic Structure, and the Kinetic Theory of Gases. 3 Gr. Total 3.
- 16b ²/_{hf}. Dr. KEMBLE. — X-Rays and Crystal Structure. 5 Gr. Total 5.
- ‡8a ¹/_{hf}. Professor HALL. — Advanced Thermodynamics. 3 Gr. Total 3.
- ‡8b ²/_{hf}. Professor H. N. DAVIS. — Advanced Thermodynamics.
2 Gr., 1 R. Total 3.
- ‡9. Professor BRIDGMAN. — Mathematical Theory of Electricity and Magnetism.
15 Gr., 1 Sp. Total 16.
- ‡11. Professor BRIDGMAN. — Mathematical Theory of Heat Conduction, Acoustics, Hydrodynamics, and Elasticity. 4 Gr., 1 E. Total 5.
- ‡21 ¹/_{hf}. Professor DUANE and Asst. Professor BOVIE. — Biological Physics.
1 Gr., 1 Ju., 1 R. Total 3.

Courses of Research

- 20c. Professor PIERCE. — Radiation, Electromagnetic Waves, and Electric Oscillations. 4 Gr. Total 4.
- 20d. Professor DUANE. — Radioactivity, and X-Rays. 4 Gr. Total 4.
- 20f. Professor H. N. DAVIS. — Heat. 2 Gr. Total 2.
- 20h. Asst. Professor CHAFFEE. — Electric Oscillations. 3 Gr. Total 3.

ENGINEERING SCIENCES

Primarily for Undergraduates: —

3. Associate Professor KENNEDY and Mr. NINDE. — Mechanical Drawing and Descriptive Geometry. Use of instruments. Projections and descriptive geometry. Freehand sketching. Tracing and blue printing.
1 Se., 7 Ju., 13 So., 14 Fr., 2 uC., 2 ocC., 42 E. Total 81.

- 3b. Mr. FROST. — Descriptive Geometry, Stereotomy, Shades and Shadows.
2 Se., 2 Ju., 1 So., 1 uC. Total 6.
- 4a. Professor HUGHES, Messrs. BARNES and PAIGE, and assistants. — Plane, Topographic, and Railroad Surveying.
1 Se., 4 Ju., 8 So., 5 Fr., 1 uC., 16 E., 4 S.S. Total 39.
5. Professors L. J. JOHNSON and HUNTINGTON and Mr. THOROGOOD. — Mechanics; Statics; Kinematics; Kinetics; Mechanism.
1 Se., 12 Ju., 8 So., 1 Fr., 1 uC., 40 E. Total 63.
- 7a hf. Professors HUNTINGTON and DAVIS. — Applied Mechanics. Dynamics of Moving Bodies; Friction; Efficiency of Machines.
3 Se., 1 Ju., 55 E. Total 59.
- 7b hf. Professors L. J. JOHNSON and SWAIN. — Applied Mechanics. Resistance of Materials.
2 Se., 38 E. Total 40.
8. Professors MARKS and Asst. Professor DAWES, and Mr. RUSSELL. — Power — its Generation, Transmission, and Distribution.
6 Se., 12 Ju., 3 So., 3 uC. Total 24.
- 10 1hf. Professor SAUVEUR and Mr. HOWARD SCOTT. — Principles of Metallurgy.
11 Se., 10 Ju., 1 So., 1 Fr., 1 ocC., 9 E. Total 33.

ASTRONOMY

Primarily for Undergraduates: —

- 1a 1hf. Dr. STETSON, Mr. C. E. KELLEY, and Mr. ARNOLD. — Elementary Astronomy.
20 Se., 41 Ju., 46 So., 2 Fr., 6 uC., 8 ocC., 2 Sp., 4 E. Total 129.
- 1b 2hf. Dr. STETSON, Mr. C. E. KELLEY, and Mr. ARNOLD. — Descriptive Astronomy.
9 Se., 14 Ju., 32 So., 1 Fr., 2 uC., 2 ocC., 2 Sp., 1 E. Total 63.
- 2 1hf. Dr. STETSON and Mr. ARNOLD. — Elementary Navigation. Theory and Use of Nautical Instruments. Piloting, Dead Reckoning.
12 Se., 18 Ju., 7 So., 4 Fr., 2 uC., 4 ocC. Total 47.
- 2a 2hf. Dr. STETSON and Mr. ARNOLD. — Nautical Astronomy. Determination of the position of a ship at sea. Sumner Method and Method of St. Hilaire.
6 Se., 14 Ju., 9 So., 2 Fr., 3 uC., 3 ocC. Total 37.

For Undergraduates and Graduates: —

- 2b 2hf. Mr. ARNOLD. — Field Astronomy. Determination of time with the astronomical transit. Longitude by wireless, by moon culminations. Latitude by the zenith telescope method.
2 Se., 2 Ju., 1 uC., 1 E. Total 6.
- 7 1hf. Dr. STETSON. — Elementary Astrophysics. 1 Gr., 1 Ju. Total 2.

Primarily for Graduates: —

5. Dr. STETSON. — Practical Astronomy. 1 Se. Total 1.
- †8. Dr. STETSON. — Stellar Photometry. Visual and photographic photometry. Determination of magnitudes. Investigation of variable stars.
1 Gr., 1 Ju. Total 2.

CHEMISTRY

Primarily for Undergraduates:—

- A. Professor LAMB, Mr. VAIL, and Messrs. MULL, EVERETT, ELDER, LEA, CARLETON, and CORSON. — Elementary Chemistry.
1 Gr., 6 Se., 26 Ju., 35 So., 114 Fr., 8 uC., 5 Sp., 21 E. Total 216.
- B ¹/₂hf. Dr. N. F. HALL, and Messrs. MULL, EVERETT, ELDER, LEA, CARLETON, and CORSON. — Inorganic Chemistry.
2 Se., 2 Ju., 4 So., 56 Fr., 3 uC., 1 Sp., 14 E., 1 And. Total 83.
- 2 ¹/₂hf. Asst. Professor CONANT, assisted by Messrs. REID and SEGUR. — Organic Chemistry (elementary course).
4 Gr., 3 Se., 19 Ju., 48 So., 8 Fr., 22 uC., 5 ocC., 4 Sp., 12 E., 1 S.P.H. Total 126.
- 22 ¹/₂hf. Asst. Professor CONANT, assisted by Messrs. KIRNER, WALLINGFORD, and SEGUR. — Experimental Organic Chemistry (elementary course).
1 Gr., 7 Se., 15 Ju., 18 So., 1 Fr., 8 uC., 2 ocC., 5 Sp., 4 E. Total 61.
- This course was repeated the second half-year.
2 Gr., 1 Se., 4 Ju., 15 So., 4 Fr., 10 uC., 1 ocC., 1 Sp., 4 E. Total 42.
3. Associate Professor G. S. FORBES, assisted by Messrs. MANSFIELD, ALLEN, LUTZ, WENTWORTH, and SHEPARD. — Qualitative Analysis.
1 Se., 17 Ju., 27 So., 9 Fr., 8 uC., 2 Sp., 5 E. Total 69.
34. Dr. N. F. HALL. Qualitative Analysis (first half-year) and Quantitative Analysis (second half-year).
1 Gr., 5 Se., 6 Ju., 7 So., 5 uC., 3 ocC., 6 E. Total 33.
- 8 ³/₄hf. Professor RICHARDS and Associate Professor G. S. FORBES. — Elementary Theoretical and Physical Chemistry, including the Historical Development of Chemical Theory.
3 Gr., 7 Se., 25 Ju., 28 So., 45 Fr., 19 uC., 2 ocC., 2 Sp., 22 E. Total 153.
- 23 ³/₄hf. Associate Professor RAYMER. — Fire Assaying. Chiefly laboratory work.
2 Se., 2 Ju., 8 E. Total 12.

For Undergraduates and Graduates:—

4. Professor BAXTER, assisted by Mr. HILTON. — Quantitative Analysis, gravimetric and volumetric. Chiefly laboratory work.
2 Gr., 3 Se., 24 Ju., 12 So., 1 Fr., 4 uC., 3 E. Total 49.
- †9 ¹/₂hf. Professor BAXTER and Mr. A. F. SCOTT. — Advanced Quantitative Analysis.
16 Gr., 3 Se., 1 Ju., 3 ocC., 1 E., 1 R. Total 25.
- 10 ³/₄hf. Professor BAXTER and Mr. A. F. SCOTT. — Gas Analysis. Chiefly laboratory work.
10 Gr., 2 Se., 2 Ju., 3 ocC., 1 E. Total 18.
5. Professor KOHLER and Mr. DEWEY. — The Carbon Compounds.
19 Gr., 20 Se., 9 Ju., 1 uC., 4 ocC., 1 Sp., 3 E. Total 57.
11. Asst. Professor JONES. — Industrial Chemistry.
4 Gr., 1 G.B., 15 Se., 21 Ju., 1 So., 1 uC., 4 ocC., 3 E. Total 50.
21. Mr. WILLIAM GREEN and Mr. DODGE, assisted by Mr. RADASCH. — Chemical Engineering.
4 Gr., 2 Se., 1 E. Total 7.
- 18 ¹/₂hf. Mr. M. C. WHIPPLE. — The Chemistry of Sanitation. Chiefly laboratory work.
1 Gr., 1 Ju., 1 uC., 1 ocC. Total 4.

19 ²hf. Asst. Professor JONES. — Technical Analysis. Chiefly laboratory work.
1 Se., 1 uC. Total 2.

Primarily for Graduates: —

‡6. Professor RICHARDS, Associate Professor G. S. FORBES, assisted by Mr. DAMON. — Physical Chemistry.

17 Gr., 2 Gr.Ed., 20 Se., 5 Ju., 1 uC., 4 ocC., 1 E., 5 R. Total 55.

12 ¹hf. Associate Professor G. S. FORBES. — Photochemistry, including the use of Optical Instruments in Chemistry. 6 Gr., 1 ocC. Total 7.

‡7 ²hf. Professor LAMB, and Dr. N. F. HALL. — Electrochemistry.

10 Gr., 5 Se., 2 ocC. Total 17.

13 ³hf. Professor LAMB and Dr. N. F. HALL. — Experimental Electrochemistry.

4 Gr., 1 So. Total 5.

14b hf. Asst. Professor JONES. — Chemical Equilibrium. Advanced Mathematical Discussion. 3 Gr. Total 3.

17 ²hf. Asst. Professor CONANT. — Structural Organic Chemistry (advanced course). 4 Gr., 2 Se., 1 Ju., 1 ocC., 1 E. Total 9.

Courses of Research

20a. Professor RICHARDS. — Inorganic and Physical Chemistry, including Determination of Atomic Weights and Electrochemistry.

4 Gr., 1 Se. Total 5.

20c. Professor KOHLER. — Organic Chemistry. 10 Gr. Total 10.

20e. Professor LAMB. — Physical Chemistry, including Electrochemistry.

3 Gr. Total 3.

20f. Professor BAXTER. — Inorganic and Physical Chemistry, including Determination of Atomic Weights. 4 Gr. Total 4.

20g. Dr. N. F. HALL. — Inorganic and Physical Chemistry. 1 Gr. Total 1.

20h. Associate Professor G. S. FORBES. — Physical Chemistry, including Electrochemistry. 1 Gr. Total 1.

20i. Asst. Professor JONES. — Physical Chemistry and Industrial Chemistry. 2 Gr. Total 2.

20l. Asst. Professor CONANT. — Organic Chemistry. 10 Gr., 1 E. Total 11.

BOTANY

Primarily for Undergraduates: —

1 ²hf. Professor OSTERHOUT, Mr. RAY, and Messrs. COOK, WELCH, GAINES, and SVENSON. — Botany.

1 Gr., 7 Se., 29 Ju., 39 So., 55 Fr., 24 uC., 4 ocC., 10 Sp., 2 E. Total 171.

2 ¹hf. Asst. Professor RIDDLE and Professor FITZPATRICK (Cornell University), assisted by Mr. WELCH. — Introduction to Cryptogamic Botany and Plant Pathology. 1 Se., 5 Ju., 3 So., 3 uC., 1 ocC. Total 13.

For Undergraduates and Graduates: —

3 ¹hf. Professor JEFFREY, assisted by Mr. LONGLEY. — Morphology in Relation to Evolution, Plant Production, Reproduction, and Genetics.

2 Gr., 1 Se., 2 Ju., 1 So., 1 ocC. Total 7.

- 5b ²hf. Professor JEFFREY, assisted by Mr. LONGLEY. — Special Morphology of the Higher Vascular Plants. The Conifers, Gnetales and Angiosperms.
2 Gr., 1 Ju., 1 So., 1 uC. Total 5.
7. Professor FERNALD, assisted by Mr. LINDER. — Classification and Distribution of Flowering Plants, with special reference to the Flora of New England and the Maritime Provinces. 6 Gr. Total 6.
- 9 ¹hf. Professor OSTERHOUT. — Plant Physiology. Respiration, Growth, Reproduction, and Irritability.
9 Gr., 1 Se., 2 Ju., 2 So., 1 uC., 1 oC., 3 B. Total 19.
10. Professor FERNALD. — Classification and Distribution of Flowering Plants. Advanced Studies upon Special Topics. 1 Gr., 2 Ju. Total 3.

Courses of Research

- 20a. Professor JEFFREY. — Static and Experimental Morphology.
4 Gr. Total 4.
- 20b. Asst. Professor RIDDLE and Professor THAXTER. — Structure and Development of Cryptogams. 2 Gr., 1 oC. Total 3.
- 20d. Professor FERNALD. — Geographic Botany. 3 Gr., 1 Se. Total 4.
- 20e. Professor OSTERHOUT. — Plant Physiology. 3 Gr. Total 3.
- 20f. Professor EAST. — Genetics. 4 B.I. Total 4.

ZOOLOGY

GENERAL ZOOLOGY

Primarily for Undergraduates: —

- 1 ¹hf. Asst. Professor BRUES, and Messrs. GILSON and COLE, and other assistants. — Zoölogy.
3 Gr., 1 G.B., 13 Se., 32 Ju., 50 So., 61 Fr., 24 uC., 4 oC., 10 Sp., 1 E., 1 B.I. Total 200.
- 3 ²hf. Associate Professor H. W. RAND, assisted by Mr. BENNITT and Mr. LONGLEY. — Comparative Anatomy of Vertebrates.
5 Gr., 3 Se., 11 Ju., 9 So., 9 Fr., 10 uC., 7 Sp. Total 54.

For Undergraduates and Graduates: —

- 4 ¹hf. Associate Professor H. W. RAND, assisted by Mr. WYMAN. — General Histology. 5 Ju., 3 So., 10 uC., 1 oC., 4 Sp. Total 23.
- 5b ²hf. Professor MARK and Mr. WYMAN. — Embryology of Vertebrates; Organogeny. 4 Gr., 1 Gr.Ed., 3 Ju., 2 So., 4 uC., 2 Sp. Total 16.
- 8 ¹hf. Professor CASTLE. — Genetics and Eugenics.
9 Se., 30 Ju., 8 So., 8 uC., 2 oC., 1 E. Total 58.

Primarily for Graduates: —

- 114a ¹hf. Professor PARKER. — The Structure and Functions of Sense Organs. 4 Gr., 2 Se., 3 Ju., 3 uC., 7 R. Total 19.
- 117 ¹hf. Associate Professor H. W. RAND. — Experimental Morphology. The form-determining factors in development and growth.
2 Gr., 2 Se., 2 Ju., 1 uC., 4 R. Total 11.

Courses of Research

20a ² hf.	Professor MARK. — Embryology.	1 Gr., 1 Ju.	Total 2.
20b ² hf.	Professor MARK. — Cytology, with special reference to Heredity.	1 Gr.	Total 1.
20c ¹ hf.	Professor PARKER. — The Structural and Functional Basis of Animal Reactions.	3 Gr.	Total 3.
20e ² hf.	Associate Professor H. W. RAND. — Comparative Anatomy of Vertebrates.	2 Gr.	Total 2.
20g ² hf.	Associate Professor H. W. RAND. — Experimental Morphology.	2 Gr., 1 Ju.	Total 3.
20.	Dr. BARBOUR. Special course.	1 Gr.	Total 1.

APPLIED ZOÖLOGY

Primarily for Graduates: —

7a ² hf.	Professor WHEELER and Asst. Professor BRUES. — Morphology and Classification of Insects.	3 Gr., 2 Ju., 1 So., 1 uC., 2 B.I.	Total 9.
7b ² hf.	Professor WHEELER and Asst. Professor BRUES. — Habits and Distribution of Insects.	2 Gr., 2 Ju., 1 uC., 2 B.I.	Total 7.

Courses of Research

20d ² hf.	Professor CASTLE. — Variation, Heredity, and the Principles of Animal Breeding.	1 Ju., 1 uC.	Total 2.
Palaeontology. (See Geology, p. 89.)			

HYGIENE AND SANITATION

Primarily for Undergraduates: —

1 ² hf.	Professor LEE. — Hygiene.	15 Se., 39 Ju., 8 So., 15 uC., 1 ocC., 3 Sp., 5 E.	Total 86.
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For Undergraduates and Graduates: —

2 ² hf.	Mr. M. C. WHIPPLE. — Elementary Bacteriology.	4 Ju., 2 So., 2 uC., 4 E.	Total 12.
4 ¹ hf.	Professor G. C. WHIPPLE and Mr. FAIR. — Vital Statistics.	4 E.	Total 4.

GEOLOGY AND GEOGRAPHY

GENERAL GEOLOGY

Primarily for Undergraduates: —

4 ¹ hf.	Professor DALY, assisted by Messrs. T. H. CLARK, HINDS, JAMES, and WEBB. — Introduction to Geology.	1 Gr., 14 Se., 29 Ju., 40 So., 33 Fr., 14 uC., 7 ocC., 1 Sp., 18 E.	Total 157.
5 ² hf.	Associate Professor WOODWORTH, assisted by Mr. T. H. CLARK. — Historical Geology.	1 Gr., 5 Se., 10 Ju., 28 So., 15 Fr., 8 uC., 4 ocC., 14 E.	Total 85.

For Undergraduates and Graduates: —

- 16 ¹/₂f. Associate Professor WOODWORTH. — Geology of North America.
2 Gr., 7 Se., 10 Ju., 2 So., 1 ocC. Total 22.
- 8 ²/₃f. Associate Professor WOODWORTH. — Principles of Geology, including
History of Geological Science. 2 Gr., 4 Se., 6 Ju., 1 So., 2 E. Total 15.
12. Associate Professor WOODWORTH. — Geological Surveying.
1 Gr., 2 Se., 8 E. Total 11.

Primarily for Graduates: —

- 20c. Professor DALY. — Research in Physical Geology. 2 Gr. Total 2.
- 20e. Associate Professor WOODWORTH. — Research in Structural Geology.
2 Gr. Total 2.
- 20f. Associate Professor WOODWORTH. — Seismology. 1 ocC. Total 1.

ECONOMIC GEOLOGY

For Undergraduates and Graduates: —

10. Professors GRATON and H. L. SMYTH. — Ore-Deposits. Origin and
Occurrence. 3 Gr., 2 Se., 7 Ju., 1 So., 7 E. Total 20.
- 13 ¹/₂f. Professor H. L. SMYTH. — Mining Geology. Prospecting and Explor-
ing. 3 Se., 5 Ju., 1 So., 1 ocC., 1 Sp., 2 E. Total 13.

This course was repeated the second half-year. 3 E. Total 3.

- 18a ¹/₂f. Professors WOLFF and PALACHE. — Non-metallic Mineral Deposits.
1 Gr., 1 Ju., 2 So., 1 Sp. Total 5.

- 18b ²/₃f. Professors GRATON and JEFFREY. — Fuels, Fluxes, and Refractories.
2 Gr., 2 Se., 13 Ju., 10 So., 1 uC., 10 E. Total 38.

Primarily for Graduates: —

11. Professor GRATON and Dr. WANDKE. — Microscopical Investigation
of Ores. 3 Gr., 1 E. Total 4.

PALAEOLOGY

For Undergraduates: —

- 1 ²/₃f. Associate Professor RAYMOND. — Geological History of Life.
2 Se., 7 Ju., 6 So., 4 Fr., 4 uC. Total 23.

For Undergraduates and Graduates: —

- 2 ²/₃f. Associate Professor RAYMOND. — Systematic Invertebrate Palaeon-
tology. 3 Gr., 1 Se., 2 Ju., 2 So., 1 uC., 1 E. Total 10.

- 3 ²/₃f. Associate Professor RAYMOND. — Stratigraphic Palaeontology.
3 Gr., 1 Se. Total 4.

Primarily for Graduates: —

20. Associate Professor RAYMOND. — Palaeontological Research.
2 Gr., 2 Se., 1 Ju. Total 5.

GEOGRAPHY

Primarily for Undergraduates: —

- 1 ¹/₂f. Mr. HINDS, assisted by Mr. JAMES. — Physiography (introductory
course). 2 Se., 5 Ju., 18 So., 7 Fr., 3 ocC. Total 35.

METEOROLOGY AND CLIMATOLOGY

Primarily for Undergraduates: —

- 1 ²hf. Professor WARD, assisted by Mr. FRENCH. — Elementary Meteorology. The Weather and Weather Forecasting.

1 Gr., 1 G.B., 5 Se., 7 Ju., 13 So., 23 Fr., 5 uC., 3 ocC., 4 E. Total 62.

For Undergraduates and Graduates: —

- 2 ¹hf. Professor WARD. — Climatology (general course). Climate and Man.

1 Gr., 3 Se., 1 Ju. Total 5.

- 3 ²hf. Professor WARD. — Climatology of North America.

1 Gr., 1 Gr.Ed., 2 Se., 1 Ju. Total 5.

- 4 ¹hf. Professor WARD. — Climatology of Latin America.

2 Gr., 1 Se. Total 3.

Primarily for Graduates: —

20. Professor WARD. — Climatology (research course). 1 Se. Total 1.

MINERALOGY AND PETROGRAPHY

Primarily for Undergraduates: —

2. Professor PALACHE, assisted by Mr. GILLSON. — Mineralogy (including Crystallography, Physical and Chemical Mineralogy and Descriptive Mineralogy). 2 Gr., 5 Se., 9 Ju., 8 So., 1 uC., 1 ocC., 8 E. Total 34.

For Undergraduates and Graduates: —

- 7 ¹hf. Professor PALACHE. — Advanced Crystallography. 1 Gr. Total 1.

- 10 ²hf. Professor PALACHE. — Advanced Mineralogy.

1 Gr., 1 Ju., 1 E. Total 3.

- 8 ²hf. Professor WOLFF. — Optical Crystallography. 1 Gr., 1 E. Total 2.

12. Professor WOLFF. — Petrography. 3 Gr., 1 Ju. Total 4.

Primarily for Graduates: —

- 14 ¹hf. Professor WOLFF. — Advanced Petrography. 3 Gr. Total 3.

Course of Research

20. Professors WOLFF and PALACHE. — Research in Mineralogy, Crystallography, or Petrography. 1 Gr. Total 1.

GROUP III

HISTORY

Primarily for Undergraduates: —

1. Professor HASKINS and assistants; with lectures by Professors COOLIDGE and MERRIMAN, and Asst. Professor LORD. — European History from the Fall of the Roman Empire to the Present Time.

2 Ju., 136 So., 320 Fr., 46 uC., 2 ocC., 4 Sp., 2 E. Total 512.

- A ¹hf. Members of the Department. — History of Liberty.

17 Se., 8 Ju. Total 25.

I. ANCIENT HISTORY

For Undergraduates and Graduates: —

4. Professor FERGUSON. — History of Greece to the Roman Conquest.
2 Gr., 2 Se., 5 Ju., 1 ocC., 2 And. Total 12.

Primarily for Graduates: —

35. Professor FERGUSON. — Roman Constitutional History. 7 Gr. Total 7.

II. MEDIAEVAL HISTORY

For Undergraduates and Graduates: —

9. Professor McILWAIN. — Constitutional History of England to the Sixteenth Century. 10 Gr., 2 Se., 1 Ju., 1 So., 1 L. Total 15.
41 ²hf. Professor HASKINS. — Intellectual History of Europe, 500–1500.
27 Gr., 8 Se., 23 Ju., 10 So., 2 uC., 1 Di. Total 71.

Primarily for Graduates: —

- ‡21 ¹hf. Professor HASKINS. — Introduction to the Sources of Mediaeval History. 4 Gr., 2 R. Total 6.
25 hf. Professor HASKINS. — Historical Bibliography and Criticism. 15 Gr., 1 Se. Total 16.
26. Professor LAKE, Dr. LA PIANA, and Professors G. F. MOORE and FENN. — History of Christian Doctrine to 1630. 1 ocC., 5 Di. Total 6.
38 ²hf. Dr. BLAKE. — Byzantine History. 4 Gr., 1 Se. Total 5.

Courses of Research

- 20b. Professor McILWAIN. — Topics in the History of English Institutions. 1 Gr. Total 1.
20c. Professor HASKINS. — Mediaeval Institutions. 3 Gr. Total 3.

III. MODERN HISTORY

Primarily for Undergraduates: —

- 2a ¹hf. Mr. J. V. FULLER. — European History from the Renaissance to the French Revolution. 11 Se., 20 Ju., 8 So., 2 ocC., 1 Sp., 1 E. Total 43.

For Undergraduates and Graduates: —

7. Professor MERRIMAN and Asst. Professor EDGELL. — The Renaissance and the Reformation. 14 Gr., 11 Se., 11 Ju., 6 So., 2 uC., 1 ocC., 1 And. Total 46.
12. Professor ABBOTT. — The History of England from 1688 to the Present Time. 10 Gr., 15 Se., 22 Ju., 19 So., 1 Fr., 8 uC., 1 ocC., 1 E. Total 77.
14 ²hf. Professor ABBOTT. — The French Revolution and Napoleon I. 6 Gr., 9 Se., 16 Ju., 20 So., 5 Fr., 4 uC., 2 ocC. Total 62.
‡15. Asst. Professor LORD. — History of Russia. 7 Gr., 1 Se., 5 Ju., 3 So., 3 uC., 2 And. Total 21.
16 ²hf. Professor MERRIMAN. — History of the Spanish Empire. 3 Gr., 5 Se., 11 Ju., 8 So., 2 uC., 1 ocC., 1 E. Total 31.
18 ¹hf. Professor COOLIDGE. — History of the Far East in the Nineteenth Century. 2 Gr., 7 Se., 6 Ju., 5 So., 4 uC., 1 ocC. Total 25.

- 30a ¹/_{hf}. Asst. Professor LORD. — Continental Europe: 1815–1871.
10 Gr., 30 Se., 41 Ju., 18 So., 1 Fr., 16 uC., 3 ocC., 1 Sp., 1 And. Total 121.
- 30b ²/_{hf}. Professor COOLIDGE. — Continental Europe: 1871–1914.
8 Gr., 21 Se., 34 Ju., 19 So., 16 uC., 3 ocC., 3 Sp. Total 104.
- 50 ²/_{hf}. Professor HORNE (Patna University). — The History and Government of India.
3 Gr., 1 Se., 6 Ju., 3 So., 3 uC. Total 16.

Primarily for Graduates: —

- 24a ¹/_{hf}. Professor EDWARD C. MOORE. — The History of Christian Life and Institutions in Europe since the Reformation.
1 Gr., 6 And., 1 Di. Total 8.
- 24b ²/_{hf}. Professor EDWARD C. MOORE. — The Expansion of Christendom and the Naturalization of Christianity in the Orient, more particularly during the Nineteenth Century. 1 Se., 5 Ju., 1 So., 1 uC., 2 And. Total 10.
27. Asst. Professor LORD. — Topics in Modern European History: 1815–1830. 4 Gr. Total 4.
29. Professor COOLIDGE. — Topics in Modern European History: 1875–1912. 2 Gr. Total 2.
34. Professor ABBOTT. — Topics in English History: 1760–1783.
5 Gr. Total 5.

COURSES OF RESEARCH

- 20d. Professor COOLIDGE and Asst. Professor LORD. — History of Continental Europe and of Asia in the Eighteenth and Nineteenth Centuries.
5 Gr. Total 5.
- 20m. Professor ABBOTT. — Modern English History. 2 Gr. Total 2.

IV. AMERICAN HISTORY

Primarily for Undergraduates: —

- 32a ¹/_{hf}. Dr. MORISON, assisted by Mr. JORDAN. — American History: The Formation of the Union, from 1760 to 1829.
41 Se., 93 Ju., 73 So., 1 Fr., 15 uC., 3 ocC. Total 226.
- 32b ²/_{hf}. Professor CHANNING and Mr. JORDAN. — American History: The Development of the Nation, 1830 to the Present Time.
2 Gr., 64 Se., 144 Ju., 92 So., 27 uC., 4 ocC., 4 Sp., 2 E., 1 Di., 1 N.T.I. Total 341.

For Undergraduates and Graduates: —

- 13a ¹/_{hf}. Professor McILWAIN. — American Constitutional History. The origin and development of the American Constitutional System in England and the Colonies.
9 Gr., 10 Se., 5 Ju., 6 So., 3 uC., 1 ocC., 2 Sp., 3 E. Total 39.
- 13b ²/_{hf}. Dr. MORISON. — American Constitutional History. Development under the Federal Constitution.
10 Gr., 4 Se., 9 Ju., 3 So., 3 uC. Total 29.
- 17 ¹/_{hf}. Professor TURNER. — The History of the West.
9 Gr., 12 Se., 8 Ju., 1 So., 6 ocC. Total 36.
- 33 ²/_{hf}. Dr. MORISON. — The History of Massachusetts from 1780 to the Present Time.
1 Gr., 1 Se., 1 Ju., 1 ocC. Total 4.

- 56 ¹/_{hf}. Asst. Professor KLEIN. — History of Latin America.
5 Gr., 7 Se., 6 Ju., 3 So., 1 uC., 2 ocC. Total 24.
- 57 ²/_{hf}. Asst. Professor KLEIN. — Recent Commercial History of Latin America.
5 Gr., 12 Se., 15 Ju., 6 So., 2 Fr., 3 uC., 5 ocC. Total 48.
- 59 ¹/_{hf}. Asst. Professor KLEIN. — History of Mexico, Central America and the
West Indies. 2 Gr., 2 Se., 1 Ju., 1 Fr., 2 uC., 2 ocC. Total 10.
- 60 ²/_{hf}. Asst. Professor KLEIN. — History of Argentina and Chile.
1 Se., 1 So., 1 Ju., 2 ocC. Total 5.

Primarily for Graduates: —

- 23b ²/_{hf}. Professor CHANNING. — Selected Topics in the Historical Develop-
ment of American Institutions: Political and Social History since
1815. 6 Gr. Total 6.
- 44 ¹/_{hf}. Professor TURNER. — Selected Topics in American History, 1830–1860.
7 Gr. Total 7.
- 45 ¹/_{hf}. Mr. ARRAGON. — The Diplomatic Relations of the United States and
Latin America. 2 Gr., 1 uC. Total 3.
- †46 ^h/_f. Dr. W. C. FORD. — Manuscript Materials of American History.
4 Gr., 1 R. Total 5.

Courses of Research

- 20e. Professor CHANNING and Dr. MORISON. — American History.
4 Gr. Total 4.
- 20k ¹/_{hf}. Professor TURNER. — American History. 3 Gr. Total 3.
- 20n ²/_{hf}. Dr. MORISON. — Topics in the History of Massachusetts.
5 Gr. Total 5.

V. ECONOMIC HISTORY

Economics 2a, 2b. (See Economics, p. 95.)

VI. CHURCH HISTORY

History 7, 24a, 24b, and 26 are courses in Church History. In addition to these, the following courses in Andover Theological Seminary (offered Primarily to Graduates) were open to students in Harvard University: —

- A1. Professor PLATNER and Professor E. C. MOORE. — History of the
Church in Outline. 6 And., 4 Di. Total 10.
- A3 ¹/_{hf}. Professor PLATNER and Professor E. C. MOORE. — Christian Institu-
tions, historically and comparatively considered. 3 And. Total 3.
- A4 ¹/_{hf}. Professor PLATNER and Professor E. C. MOORE. — History of Chris-
tianity in England since the Reformation.
1 Gr., 1 ocC., 1 Sp., 2 And. Total 5.

VII. HISTORY OF RELIGIONS

Primarily for Graduates: —

- 4b ¹/_{hf}. Professor G. F. MOORE. — Hellenistic Judaism.
2 Gr., 1 uC., 1 ocC., 1 And., 6 Di. Total 11.
9. Professor LAKE. — Beginnings of Christianity.
1 Gr., 1 Se., 1 And., 3 Di., 3 N.T.I. Total 9.

*Course of Research*20a ²hf. Professor KIRSOPP LAKE.

1 Ju., 4 Di. Total 5.

GOVERNMENT

I. MODERN GOVERNMENT

Primarily for Undergraduates: —

1. Professor MUNRO, assisted by Messrs. WHITMORE, WELLS, FURBER, and SHOUP. — Constitutional Government.

1 Se., 12 Ju., 81 So., 128 Fr., 66 uC., 3 Sp., 3 E. Total 294.

- 2a ¹hf. Professor ROGERS (University of Virginia). — Political Thought and Institutions.

15 Se., 11 Ju., 3 So., 1 uC., 1 ocC. Total 31.

For Undergraduates and Graduates: —

3. Professor HOLCOMBE. — Principles of Popular Government.

3 Gr., 4 Se., 21 Ju., 8 So., 2 uC., 2 ocC. Total 40.

9. Mr. HANFORD. — State and Local Government in the United States.

2 Gr., 8 Se., 8 Ju., 12 So., 1 uC. Total 31.

17. Professor MUNRO and Mr. HANFORD. — Municipal Government.

4 Gr., 11 Se., 32 Ju., 17 So., 5 uC., 1 ocC. Total 70.

- 31 ²hf. Professor WHIPPLE. — Municipal Administration.

1 Gr., 2 Se., 9 Ju., 2 Fr., 1 uC., 6 E., 2 S.P.H. Total 23.

- 16 ²hf. Professor ROGERS (University of Virginia). — Colonial Problems, Political and Diplomatic.

1 Gr., 7 Se., 4 Ju., 5 So., 2 Fr., 9 uC. Total 28.

Primarily for Graduates: —

7. Professor HOLCOMBE. — National Administration of the United States.

7 Gr., 1 Se., 2 Ju., 2 Sp. Total 12.

- 12a ¹hf. Professor A. B. HART. — American Political Organization, National, State, and Municipal.

9 Gr., 1 Se., 1 Ju., 1 So., 1 ocC. Total 13.

- 12b ²hf. Professor ROGERS (University of Virginia). — American Governmental Powers, National, State, and Municipal.

8 Gr., 6 Se., 6 Ju., 4 So., 3 uC., 1 Sp., 3 R. Total 31.

Courses of Research

- 20a ²hf. Professor MUNRO. — Topics in Municipal Government.

2 Gr. Total 2.

- 20d. Professor HOLCOMBE. — Topics in the Theory of Government.

2 Gr., 1 Se. Total 3.

- 20e ¹hf. Professor A. B. HART. — American Institutions — National and Diplomatic.

2 Gr. Total 2.

II. LAW AND POLITICAL THEORY

For Undergraduates and Graduates: —

- 18a ¹hf. Professor A. B. HART. — Combined Governments and Systems: Composite, Colonial, Federal, and International.

2 Gr., 2 Se., 2 Ju., 1 So., 4 uC., 1 ocC. Total 12.

19. Mr. MACLEISH. — American Constitutional Law.
12 Gr., 2 Se., 6 Ju., 4 So. Total 24.

Primarily for Graduates: —

- †6. Professor McILWAIN. — History of Political Theory.
20 Gr., 2 Se., 1 Ju., 3 R. Total 26.

III. INTERNATIONAL LAW AND DIPLOMACY

For Undergraduates and Graduates: —

4. Professor G. G. WILSON, assisted by Mr. HABERLY. — Elements of International Law. 10 Gr., 7 Se., 8 Ju., 2 So., 2 uC., 4 Sp. Total 33.

Primarily for Graduates: —

15. Professor G. G. WILSON. — International Law as administered by the courts and as observed in international negotiations.
10 Gr., 1 Se., 3 Ju. Total 14.

Course of Research

- 20c. Professor G. G. WILSON. — International Law. 2 Gr. Total 2.

ECONOMICS

Primarily for Undergraduates: —

- A. Asst. Professors BURBANK and J. S. DAVIS, Dr. RUFUS S. TUCKER, and Messrs. SHORTLIFFE, MASSON, MERIAM, and KAHN, with lectures on selected subjects by Professor TAUSSIG. — Principles of Economics.
29 Se., 137 Ju., 214 So., 8 Fr., 79 uC., 16 ocC., 2 Sp., 13 E., 1 Di., 1 E.T.S. Total 500.

For Undergraduates and Graduates: —

- 1a ¹/₂f. Asst. Professor J. S. DAVIS, assisted by Mr. SHAULIS. — Accounting.
1 Gr., 1 G.B., 34 Se., 45 Ju., 20 So., 28 uC., 13 ocC., 1 Sp., 1 E. Total 144.
- 1b ¹/₂f. Asst. Professor J. S. DAVIS, assisted by Mr. ELIOT. — Statistics.
8 Se., 16 Ju., 9 So., 10 uC., 5 ocC., 1 Sp., 1 E. Total 50.
- 2a ¹/₂f. Dr. E. E. LINCOLN, assisted by Mr. HYDE. — European Industry and Commerce in the Nineteenth Century.
18 Gr., 8 Se., 17 Ju., 11 So., 1 Fr., 12 uC., 3 ocC. Total 70.
- 2b ¹/₂f. Dr. E. E. LINCOLN, assisted by Mr. HYDE. — Economic History of the United States.
13 Gr., 1 G.B., 34 Se., 47 Ju., 26 So., 3 Fr., 17 uC., 6 ocC., 1 Sp. Total 148.
3. Professor YOUNG. — Money, Banking, and Commercial Crises.
6 Gr., 34 Se., 67 Ju., 10 So., 3 Fr., 20 uC., 8 ocC. Total 148.
- 4a ¹/₂f. Professor RIPLEY, assisted by Mr. FRAME. — Economics of Transportation.
3 Gr., 38 Se., 50 Ju., 11 So., 19 uC., 11 ocC. Total 132.
- 4b ¹/₂f. Professor RIPLEY, assisted by Mr. FRAME. — Economics of Corporations.
9 Gr., 42 Se., 62 Ju., 18 So., 24 uC., 9 ocC., 2 Sp. Total 166.
- 5a ¹/₂f. Asst. Professor BURBANK. — Public Finance, exclusive of Taxation.
2 Gr., 16 Se., 11 Ju., 1 So., 10 uC., 4 ocC. Total 44.
- 5b ¹/₂f. Asst. Professor BURBANK. — The Principles and Methods of Taxation.
3 Gr., 1 Gr.Ed., 31 Se., 25 Ju., 5 So., 1 Fr., 12 uC., 2 ocC., 1 E. Total 81.

6a ¹hf. Professor RIPLEY, assisted by Mr. MERIAM. — Trade-Unionism and Allied Problems.

2 Gr., 41 Se., 34 Ju., 1 So., 8 uC., 5 ocC., 1 Sp., 1 Di., 1 L. Total 94.

7a ¹hf. Professor DAY. — Theories of Value and Distribution.

2 Gr., 4 Se., 5 Ju., 1 So., 1 uC., 2 ocC. Total 15.

7b ²hf. Professor CARVER. — The Single Tax, Socialism, Anarchism.

3 Gr., 29 Se., 19 Ju., 1 Fr., 10 uC., 6 ocC., 1 Sp. Total 69.

8. Professor CARVER, assisted by Mr. HYDE. — Principles of Sociology.

4 Gr., 1 Gr.Ed., 7 Se., 12 Ju., 2 So., 1 Fr., 9 uC., 2 ocC., 1 Sp., 1 Di.
Total 40.

9a ¹hf. Professor CARVER, assisted by Mr. HOPKINS. — Economics of Agriculture.

7 Gr., 19 Se., 6 Ju., 1 So., 4 uC., 4 ocC. Total 41.

9b ²hf. Professor TAUSSIG. — International Trade and Tariff Policies.

6 Gr., 11 Se., 15 Ju., 2 So., 1 Fr., 5 uC., 4 ocC., 1 Sp. Total 45.

10 ¹hf. Dr. A. E. MONROE. — Economic Thought and Institutions.

43 Se., 21 Ju., 1 uC., 5 ocC. Total 70.

Primarily for Graduates: —

I

ECONOMIC THEORY AND METHOD

†11. Professor TAUSSIG. — Economic Theory.

26 Gr., 1 G.B., 1 Se., 1 ocC., 10 R. Total 39.

12 ¹hf. Professor CARVER. — The Distribution of Wealth. 5 Gr., 2 Se. Total 7.

†14. Professor BULLOCK. — History and Literature of Economics to the year 1848.

18 Gr., 1 R. Total 19.

15. Professor YOUNG. — Modern Schools of Economic Thought.

7 Gr., 1 ocC. Total 8.

III

APPLIED ECONOMICS

†31. Professor BULLOCK. — Public Finance. 21 Gr., 2 R. Total 23.

†32 ²hf. Professor CARVER. — Economics of Agriculture.

8 Gr., 1 G.B., 1 Se., 1 Ju., 1 ocC., 1 R. Total 13.

†33 ¹hf. Professor TAUSSIG. — International Trade and Tariff Problems.

11 Gr., 2 R. Total 13.

†34. Professor RIPLEY. — Problems of Labor.

19 Gr., 1 Gr.Ed., 1 Se., 1 ocC. Total 22.

†35a ¹hf. Asst. Professor J. S. DAVIS. — Business Corporations.

8 Gr., 1 R. Total 9.

37 ¹hf. Professor PERSONS. — Commercial Crises.

3 Gr., 1 Se. Total 4.

38 ²hf. Professor YOUNG. — Selected Monetary Problems.

12 Gr., 1 G.B. Total 13.

IV

STATISTICS

†41. Asst. Professor DAY. — Statistical Theory and Analysis.

10 Gr., 2 G.B., 7 R. Total 19.

V

SOCIAL SCIENCES

Anthropology 12 ²hf. (See Anthropology, p. 98.)

Social Ethics 4 ¹hf., 6 ²hf., 10 ¹hf., 11 ¹hf., 12 ²hf., 14 ²hf., 15 ²hf., 20. (See Social Ethics, pp. 101 and 103.)

COURSE OF RESEARCH IN ECONOMICS

‡20. Professors TAUSSIG, CARVER, RIPLEY, BULLOCK, YOUNG, PERSONS, and DAY. Economic Research. 18 Gr., 1 Di. Total 19.

The Seminary in Economics

Meetings were held each week by instructors and advanced students for the presentation of the results of investigation.

EDUCATION

For Undergraduates and Graduates:—

A ¹hf. Professor HOLMES. — Principles and Problems of Modern Education. Contemporary Educational Conditions (Introductory Course).
2 Gr., 7 Se., 6 Ju., 1 uC., 3 ocC., 2 Sp. Total 21.

B ²hf. Professor HANUS. — Public School Administration in State and City. — Contemporary Tendencies and Problems.
1 Gr., 3 Gr.Ed., 1 Se., 5 Ju., 1 So., 1 uC., 1 ocC., 1 Sp. Total 14.

1. Professor A. O. NORTON (Wellesley College). — The History of Education.
4 Gr.Ed., 1 uC. Total 5.

7 ²hf. Professor DEARBORN. — Educational Psychology and Mental Hygiene.
4 Gr., 4 Se., 15 Ju., 2 So., 3 Fr., 3 uC., 3 Sp. Total 34.

Primarily for Graduates:—

3b ¹hf. Mr. BEATLEY. — Principles of Secondary Education. Visits to schools.
1 ocC., 1 Sp. Total 2.

9 ²hf. Mr. BEATLEY. — Teaching. Teaching under supervision in the schools of Newton, Brookline, Arlington, Medford, Somerville, Belmont, Watertown, and Cambridge.
1 ocC. Total 1.

ANTHROPOLOGY

Primarily for Undergraduates:—

1. Associate Professor TOZZER and Dr. HOOTON, assisted by Mr. KERR. — General Anthropology.
12 Se., 16 Ju., 9 So., 4 Fr., 8 uC., 1 ocC., 1 Sp. Total 51.

For Undergraduates and Graduates:—

5. Professor DIXON. — American Archaeology and Ethnography.
2 Gr., 1 Se., 1 Sp. Total 4.

2. Dr. HOOTON. — Physical Anthropology.
4 Gr., 5 Se., 1 Ju., 7 uC., 1 Sp. Total 18.

- 3^{2hf}. Dr. HOOTON. — Criminal Anthropology and Race Mixture.
3 Gr., 11 Se., 18 Ju., 6 So., 10 uC., 5 ocC., 2 Sp. Total 55.
- 4^{1hf}. Dr. HOOTON. — Prehistoric European Archaeology and European Ethnography. 1 Gr., 2 Se., 7 Ju., 4 ocC. Total 14.
- 7^{1hf}. Professor DIXON. — Ethnography of Oceania. 2 Gr., 1 ocC. Total 3.
- 11^{2hf}. Professor DIXON. — Ethnography of Asia. 3 Gr., 1 Se., 2 So. Total 6.
- 12^{2hf}. Associate Professor TOZZER. — Primitive Sociology, a History of Institutions. 4 Gr., 1 Se., 9 Ju., 3 So., 3 uC. Total 20.
- 13^{2hf}. Professor DIXON. — Primitive Industries and Arts. 2 Se., 4 Ju. Total 6.
- 8^{2hf}. Professor DIXON. — American Indian Languages. 3 Gr. Total 3.
- 15^{hf}. Professor DIXON, Associate Professor TOZZER, and Dr. HOOTON. — Field Methods in Anthropology. 2 Gr., 1 Sp. Total 3.

Primarily for Graduates: —

Course of Research

- 20d. Professor DIXON. — General Ethnology. 1 Gr., 1 Di. Total 2.

GROUP IV

PHILOSOPHY AND PSYCHOLOGY

PHILOSOPHY

Primarily for Undergraduates: —

- A. Professors WOODS, R. B. PERRY, and HOCKING. — Introduction to Philosophy.
3 Se., 94 Ju., 148 So., 106 Fr., 65 uC., 2 ocC., 2 Sp., 2 E. Total 422.
- 1^{1hf}. (formerly C). Dr. SHEFFER. — Elementary Logic.
14 Se., 41 Ju., 21 So., 3 Fr., 11 uC., 2 ocC., 2 Sp., 1 E. Total 95.

For Undergraduates and Graduates: —

- 3^{1hf}. Dr. SHEFFER. — Philosophy of Science. Introduction to the Logic of Science and the Metaphysics of Nature.
4 Se., 1 Ju., 1 So., 1 uC., 1 ocC. Total 8.
- 3a^{2hf}. Associate Professor LEWIS (University of California). The Philosophy of Evolution. 4 Gr., 7 Se., 11 Ju., 6 So., 1 Fr., 1 Sp., 1 E. Total 31.
- 4^{1hf}. Professor R. B. PERRY. — Ethics — General Course.
4 Gr., 7 Se., 11 Ju., 3 So., 5 uC., 2 ocC., 2 Sp., 1 Di., 1 B.U. Total 36.
- 4a^{2hf}. Associate Professor LEWIS (University of California). — Advanced Ethics. 6 Gr., 2 Se., 2 Ju., 1 So., 2 uC. Total 13.
- 5^{1hf}. Professor HOCKING. — Philosophy of the State.
6 Gr., 31 Se., 53 Ju., 12 So., 1 Fr., 4 uC., 6 ocC., 6 Sp., 2 Di., 1 B.U., 1 N.T.I., 1 E.T.S. Total 124.
- 6a^{1hf}. Professor EDWARD C. MOORE. — Philosophy of Religion. The nature and evolution of the religious consciousness.
4 Gr., 3 Se., 2 Ju., 2 So., 3 uC., 2 ocC., 2 And., 1 N.T.I. Total 19.
- 6b^{2hf}. Professor EDWARD C. MOORE. — Philosophy of Religion. The truths of religion. 1 Gr., 2 Se., 6 Ju., 4 uC., 1 ocC., 3 And., 1 N.T.I. Total 18.

- 7 ¹/_{hf}. Professor FENN. — Theism. 4 Di., 1 And. Total 5.
- 8 ²/_{hf}. Dr. SHEFFER. — Advanced Logic. — The elements of mathematical logic, with some applications to problems of philosophy.
3 Gr., 1 Se., 8 Ju., 11 So., 5 uC., 3 E. Total 31.
9. Professor HOCKING. — Metaphysics. 6 Gr., 2 Se., 1 ocC., 1 Sp. Total 10.
- 9c ²/_{hf}. Dr. DEMOS. — Introduction to the Theory of Knowledge. Perception, Meaning, Judgment, and Inference, in the light of contemporary discussions.
2 Gr., 1 Se., 2 Ju., 2 So., 2 ocC., 1 Sp. Total 10.
- 10 ²/_{hf}. Asst. Professor LANGFELD. — Aesthetics.
2 Gr., 6 Se., 23 Ju., 13 So., 1 Fr., 6 uC., 1 ocC., 1 Sp., 1 Di. Total 54.
- †12b ²/_{hf}. Professor WOODS. — Later Platonic Dialogues. 2 Gr., 1 R. Total 3.
- 15 ²/_{hf}. Professor HOCKING. — The Kantian Philosophy. Reading of the Critique of Pure Reason with explanatory and historical comment.
5 Gr., 2 Se., 5 Ju., 2 So., 3 uC., 1 Sp., 2 B.U. Total 20.
- †16a ¹/_{hf}. Associate Professor LEWIS (University of California). — Post-Kantian Idealism. 4 Gr., 4 Se., 2 Ju., 1 R., 1 Di., 1 And. Total 13.
- 16b ¹/_{hf}. Dr. EATON. — English Empiricism in the Nineteenth Century. A study of empiricism with special reference to the development of the political and social sciences. 7 Se., 11 Ju., 2 So., 1 uC. Total 21.
- 18 ²/_{hf}. Professor R. B. PERRY. — Present Philosophical Tendencies. An outline of current tendencies in ethics, political philosophy, and fundamental beliefs, with special reference to the conflict of ideals in the recent war. 4 Gr., 9 Se., 18 Ju., 4 So., 6 uC., 1 Di. Total 42.

Primarily for Graduates: —

- †22 ¹/_{hf}. Associate Professor LEWIS (University of California). — Logical Theory. Investigation of the fundamental concepts of Logic. Comparative study of various types of Logical Theory.
6 Gr., 2 Se., 1 So., 1 R. Total 10.
- Mathematics 27 ¹/_{hf}. (see Mathematics, p. 102).
- †24a ¹/_{hf}. (formerly 17a). Professor E. C. MOORE. — History of Christian Thought since 1632. 1 Gr., 1 R., 1 And., 2 Di. Total 5.
- †24b ²/_{hf}. (formerly 17b). Professor EDWARD C. MOORE. — Modern Theology, especially as influenced by Ritschl.
1 Gr., 4 Di., 1 And., 1 E.T.S., 1 R. Total 8.
- †7 ¹/_{hf}. Dr. WOLFSON. — Spinoza and Mediaeval Jewish Philosophy.
3 Gr. Total 3.
- (This course is the same as Semitic 25 ¹/_{hf}.)

Seminary Courses

20. Professors WOODS, R. B. PERRY, and HOCKING, and Associate Professor LEWIS (University of California). — Selected Authors and Topics in the History of Philosophy. 3 Gr., 1 Di., 1 R. Total 5.
- 20b ¹/_{hf}. Professor WOODS. — Seminary in the History of Philosophy. French Philosophy in the Nineteenth Century. 2 Gr. Total 2.
- 20c. Dr. SHEFFER. — Seminary in Logic. Contemporary Problems.
1 Gr., 1 R. Total 2.

- ‡20e. Professor R. B. PERRY. — Seminary in the Theory of Knowledge. Selected Topics from Epistemology, with special reference to the problems of Judgment and Truth. 10 Gr., 2 R. Total 12.
- 20i hf. Professor POUND, with the collaboration of members of the Department of Philosophy and Psychology, and of other departments. — Problems in Social Philosophy, with special reference to Jurisprudence. 5 Gr., 2 Sp. Total 7.

THE CLASSICS

Greek 8, Greek 14 ²hf., and Latin 8. (See the Classics, pp. 71, 72.)

PSYCHOLOGY

Primarily for Undergraduates: —

- A ¹hf. Professor McDougall. — Introduction to Psychology: Fundamental Principles. 1 Gr., 1 Se., 41 Ju., 30 So., 38 Fr., 46 uC., 3 ocC., 3 Sp. Total 163.
- B ²hf. Asst. Professor LANGFELD. — Introduction to Psychology: Experimental and Applied. 14 Ju., 16 So., 21 Fr., 22 uC., 3 ocC., 3 Sp. Total 79.
- 1 ¹hf. Dr. ALLPORT. — Comparative Psychology. 3 Gr., 7 Se., 17 Ju., 10 So., 1 Fr., 11 uC., 5 ocC., 5 Sp., 1 E. Total 60.

For Undergraduates and Graduates: —

- 5 ²hf. Dr. TROLAND. — Advanced Psychology. 9 Gr., 4 Se., 5 Ju., 5 So., 1 Fr., 2 uC., 1 Sp. Total 27.
- Education 7 ²hf. (See Education, p. 97.)
- 10 ¹hf. Dr. ALLPORT. — Experimental Human Psychology (introductory laboratory course). 3 Gr., 9 Se., 4 Ju., 1 So., 2 uC., 2 ocC. Total 21.
- 12a ¹hf. Dr. TROLAND. — The Psychophysiology of Sensation and Feeling. 7 Gr., 1 Se., 1 Ju., 1 ocC. Total 10.
- 16 ²hf. Dr. ALLPORT. — Social Psychology. 7 Gr., 3 Se., 11 Ju., 4 So., 2 Fr., 11 uC., 2 ocC., 1 Sp., 1 E. Total 42.

Primarily for Graduates: —

- ‡23 ²hf. Professor McDougall. — Abnormal Psychology. 12 Gr., 2 Se., 5 Ju., 1 So., 3 uC., 1 Di. Total 24.
24. Dr. TROLAND. — Research in Psychophysiological Optics. 2 Gr. Total 2.
20. Special Research in Psychology, under the direction of an instructor of the Department. 6 Gr. Total 6.
- ‡20b. Asst. Professor LANGFELD. — Seminary in Psychology. — Essential Problems. 13 Gr., 1 Se., 2 Ju., 5 R. Total 21.
- ‡20e. Professor McDougall. — Seminary in Psychopathology. Mind and Body. 12 Gr., 1 Di., 2 R. Total 15.
- 20a. Asst. Professor LANGFELD and Dr. ALLPORT. — Psychological Laboratory. Experimental investigations in human psychology, including problems of applied psychology. 11 Gr. Total 11.
- 20c. Professor McDougall. — Research in Comparative Psychology. 4 Gr. Total 4.

20d. Professor C. M. CAMPBELL. — Research in Psychopathology.

3 Gr., 2 R. Total 5.

SOCIAL ETHICS

Primarily for Undergraduates: —

A. Professor CABOT, assisted by Dr. CARPENTER. — Human Relations.
3 Gr., 66 Se., 98 Ju., 54 So., 29 Fr., 30 uC., 27 ocC., 5 Sp., 4 E., 1 S.A.
Total 317.

For Undergraduates and Graduates: —

1. Asst. Professor FOERSTER and Asst. Professor JAMES FORD, assisted by Dr. CARPENTER. — Social Problems and Social Policy.
6 Se., 4 Ju., 6 So., 2 uC., 2 ocC. Total 20.

4 ¹/₂hf. Asst. Professor FOERSTER. — American Population Problems: Immigration and the Negro.
3 Gr., 11 Se., 12 Ju., 2 So., 3 uC., 3 ocC., 1 Sp., 1 Di. Total 36.

6 ²/₃hf. Asst. Professor FOERSTER. — Unemployment and Related Problems of the Working Classes, with Special Consideration of Social Insurance.
4 Gr., 13 Se., 17 Ju., 4 So., 11 uC., 5 ocC., 1 Di. Total 55.

Primarily for Graduates: —

‡15 ²/₃hf. Asst. Professor FOERSTER. — Recent Theories of Social Reform.
4 Gr., 1 Se., 2 Ju., 1 ocC., 1 Di., 4 R., 1 And. Total 14.

‡16 ²/₃hf. Professor CABOT. — The Kingdom of Evils.
5 Gr., 4 Se., 5 Ju., 2 So., 2 uC., 3 ocC., 2 Di., 1 E.T.S., 15 R. Total 39.

Course of Research

20. Asst. Professor FOERSTER and Asst. Professor FORD. — Special Researches.
4 Gr., 1 Di. Total 5.

MATHEMATICS

Primarily for Undergraduates: —

A. Professors OSGOOD and GRAUSTEIN, and Messrs. BROWN, GARABEDIAN, LEVY, and MACKIE. — Trigonometry; Analytic Geometry; Introduction to the Calculus.

1 Se., 6 Ju., 16 So., 117 Fr., 4 uC., 3 Sp., 21 E. Total 168.

C. Professor J. L. COOLIDGE, Associate Professor KELLOGG, and Messrs. LANGER, RUPP, and MACKIE. — Analytic Geometry; Introduction to the Calculus.

2 Se., 13 Ju., 14 So., 99 Fr., 5 uC., 1 ocC., 20 E. Total 154.

D ²/₃hf. Mr. BROWN and Mr. RUPP. — Algebra.

3 Se., 21 Ju., 20 So., 45 Fr., 4 uC., 1 E. Total 94.

E ¹/₂hf. Mr. BROWN and Mr. RUPP. — Solid Geometry.

1 Se., 19 Ju., 2 So., 22 Fr., 1 uC. Total 45.

K ¹/₂hf. Mr. LEVY. — Logarithms; Plane and Spherical Trigonometry.

2 Se., 3 Ju., 7 So., 2 Fr. Total 14.

2. Associate Professor BOUTON, Professors HUNTINGTON, BIRKHOFF, and CURTISS (Northwestern University) and Mr. LANGER. — Differential and Integral Calculus; Analytic Geometry.

2 Se., 11 Ju., 56 So., 1 Fr., 5 uC., 1 ocC., 40 E., 1 Sp. Total 117.

4. Associate Professor KELLOGG. — The Elements of Mechanics.
4 Gr., 2 Se., 7 Ju., 4 So., 1 ocC., 1 E. Total 19.

For Undergraduates and Graduates: —

- 5a ¹/₂f. Professor BIRKHOFF. — Differential and Integral Calculus (advanced course. Part I).
5 Gr., 9 Se., 18 Ju., 4 So., 3 uC., 2 ocC., 1 Sp., 2 E. Total 44.

- 5b ²/₂f. Professor BIRKHOFF. — Differential and Integral Calculus (advanced course. Part II). 4 Gr., 5 Se., 8 Ju., 3 So., 3 uC., 1 ocC., 1 E. Total 25.

3. Associate Professor BOUTON. — Introduction to Modern Geometry.
3 Gr., 1 Se., 9 Ju., 3 So., 2 uC., 4 ocC. Total 22.

- 9 ²/₂f. Professor J. L. COOLIDGE. — Probability.
7 Gr., 4 Se., 7 Ju., 1 So., 1 uC. Total 20.

Primarily for Graduates: —

8. Professor OSGOOD. — Dynamics (second course).
15 Gr., 2 Se., 5 Ju., 2 R. Total 24.

- ‡13. Asst. Professor GRAUSTEIN. — The Theory of Functions (introductory course).
7 Gr., 1 Se., 4 Ju. Total 12.

- ‡14a ¹/₂f. Professor J. L. COOLIDGE. — Algebra. The properties of polynomials; invariants.
4 Gr., 1 Se., 2 R. Total 7.

- ‡22. Asst. Professor GRAUSTEIN. — Differential Geometry of Curves and Surfaces.
5 Gr. Total 5.

- ‡26. Professor J. L. COOLIDGE. — Line Geometry. 4 Gr., 1 R. Total 5.

- ‡27 ¹/₂f. Professor HUNTINGTON. — The Fundamental Concepts of Mathematics.
2 Gr., 2 Se., 2 Ju., 3 uC., 1 ocC., 1 R. Total 11.

- ‡10a ¹/₂f. Associate Professor KELLOGG. — Introduction to the Theory of Potential Functions and Laplace's Equation. 9 Gr., 1 Ju. Total 10.

- ‡10b ²/₂f. Professor CURTISS (Northwestern University). — The Analytical Theory of Heat and Problems in Elastic Vibrations. Fourier's Series; Legendre's Polynomials. Bessel's Functions.
10 Gr., 1 Se., 1 Ju., 1 Sp., 1 R. Total 14.

- ‡25. Associate Professor BOUTON. — Geometrical Transformations. With special reference to the works of Sophus Lie.
7 Gr., 1 Se., 1 Ju., 1 R. Total 10.

- ‡17a ¹/₂f. Professor OSGOOD. — The Theory of Functions (Second Course, Part I).
4 Gr., 2 R. Total 6.

- ‡17b ²/₂f. Professor CURTISS (Northwestern University). — The Theory of Functions (Second Course, Part II).
3 Gr., 1 R. Total 4.

- ‡30 ¹/₂f. Professor BIRKHOFF. — Developments in Series. Theory of the expansion of arbitrary functions according to solutions of an ordinary linear differential equation.
3 Gr., 1 E., 2 R. Total 6.

- ‡33 ²/₂f. Professor BIRKHOFF. — Difference Equations. 6 Gr., 2 R. Total 8.

‡SEMINARY IN ANALYSIS

- Associate Professor KELLOGG and Professor BIRKHOFF. — 3 Gr., 2 R. Total 5.

Course of Research

- 20e. Professor BIRKHOFF. — Topics in the Theory of Differential Equations.
2 Gr. Total 2.

OUT OF GROUP

MILITARY SCIENCE AND TACTICS

1. Major GOETZ. — Military Science. — Field Artillery, Matériel and Gunnery: Hippology. Fundamentals of Military Training.
3 Se., 7 So., 37 Fr., 2 uC., 2 ocC., 1 Sp., 4 E. Total 56.
2. Major GOETZ. — Military Science. — Ordnance, Gas Engineering, Topography, and Orientation. 1 G.B., 26 So., 4 Fr., 1 uC. Total 32.
3. Major GOETZ. — Military Science. Conduct of Fire, Artillery Firing; Minor Tactics. 1 Gr., 3 Se., 15 Ju., 5 So. Total 24.

SOCIAL ETHICS

PROFESSIONAL COURSES

- 10 ¹/₂f. Asst. Professor JAMES FORD. — Forms and Methods of Social Service.
6 Gr., 2 Gr.Ed., 2 Di., 1 E.T.S. Total 11.
- 11 ¹/₂f. Asst. Professor JAMES FORD. — Poor Relief: Case Work with Dependent Families and Administration of Charitable Agencies.
3 Gr., 1 Gr.Ed., 2 Di., 1 E.T.S. Total 7.
- 12 ²/₃f. Asst. Professor JAMES FORD. — Community Organization: Forms and Methods of Social Work with Neighborhood Groups and the Development of Coöperative Agencies. 4 Gr., 4 Di. Total 8.
- 14 ²/₃f. Asst. Professor JAMES FORD. — The Housing Problem and the Social Aspects of Town Planning. 5 L.A. Total 5.
20. Asst. Professor JAMES FORD. — Special Researches. 1 Gr., 1 Di. Total 2.

COURSES IN MEDICAL SCIENCES

ANATOMY

- 1 ¹/₂. Associate Professor JOHN WARREN and Dr. BEGG. — Elementary Human Anatomy. 5 Gr. Total 5.
- 2 ¹/₂. Associate Professors BREMER and LEWIS. — Elementary Histology, Embryology, and Neurology. 5 Gr. Total 5.

PHYSIOLOGY

10. Professor CANNON, Associate Professor DRINKER, Asst. Professors STILES and AUB, and Dr. A. FORBES. — Elementary Course. 5 Gr. Total 5.
12. Professor CANNON, Associate Professor DRINKER, Dr. A. FORBES, and Asst. Professor AUB. — Pre-research Training. 1 Gr. Total 1.

BIOCHEMISTRY

1. Professor FOLIN and Asst. Professor FISKE. — General Biological Chemistry. 6 Gr. Total 6.
5. Professor FOLIN and Asst. Professor FISKE. — Advanced Biological Chemistry. 1 Gr. Total 1.

PATHOLOGY

1. Professor COUNCILMAN, Associate Professor WOLBACH, Asst. Professors WRIGHT and GOODPASTURE, and Dr. COOK. — General Pathology.
1 Gr. Total 1.

BACTERIOLOGY

1. Professor ERNST and Associate Professor WOLBACH. — Elementary Bacteriology.
1 Gr. Total 1.
20. Professor ERNST and Associate Professor WOLBACH. — Research.
5 Gr. Total 5.

Since a considerable percentage of students in the Summer School are students of Education (in 1920, 27 per cent; in 1921, 33 per cent), it seemed desirable that the newly established Graduate School of Education should be represented on the Administrative Board in charge of the Summer School. At the request of the Faculty of Arts and Sciences the Committee on Instruction considered the matter and proposed the following vote, which was adopted by the Faculty November 16, 1920:

That hereafter the Summer School be conducted as a joint enterprise of the Faculty of Arts and Sciences and the Graduate School of Education; the School to be under the immediate control of an administrative board, to be composed of representatives of the two Faculties in the approximate proportion of two-thirds from the Faculty of Arts and Sciences and one-third from the Faculty of the Graduate School of Education.

Beginning, then, with its last session, the Summer School is a joint enterprise. All courses in it which count for any degree under the Faculty of Arts and Sciences must be approved by that Faculty on recommendation of the Committee on Instruction; while the Faculty of the Graduate School of Education exercises a similar control over courses leading to its degrees.

Undergraduates resort to the Summer School for a variety of reasons: most wish to shorten the time required for the bachelor's degree; some have deficiencies to make good; and a few desire additional opportunities to work in their special subjects. Graduate students, also, find advanced work now open to them in summer courses. The total number of undergraduates, however, is not large, being 222 in both 1920 and 1921. In the latter year there were 182 undergraduates in good standing, 29 who were deficient in their college work, and 11 specials, as contrasted with 1920, when 128 undergraduates in good standing, 87 deficient in their work, and 7 specials made up the total. The decrease in the number of deficient students is a cause for congratulation. The num-

ber of graduate students, including students from the professional schools, rose from 55 in 1920 to 101 in 1921, but the proportion of "regular students" to the total number in the Summer School remained about the same; 16.2 per cent in 1920, 15.9 per cent in 1921.

The admission of women to the Graduate School of Education on equal terms with men promptly raised the question whether these women should be freely admitted to instruction under the Faculty of Arts and Sciences. The matter was referred to the Committee on Instruction, which was enlarged for this purpose by the addition of Dean Holmes of the Graduate School of Education and of Professor Webster, Chairman of the Academic Board of Radcliffe College. The Committee proposed the following votes which were adopted by the Faculty at its meeting of March 15, 1921:

- (1) The Committee is of the opinion that the admission of women to the Graduate School of Education should not be regarded as in any way establishing co-education in other departments of the University; that the women students in the Graduate School of Education should therefore have no rights as such to take courses under the Faculty of Arts and Sciences, but that by appropriate arrangements between Radcliffe College and the Graduate School of Education, women should be at liberty to obtain all the opportunities now open to Radcliffe students in courses given at Radcliffe or open to Radcliffe students under the Faculty of Arts and Sciences.
- (2) The Committee is of the opinion that no change should be made with reference to the admission of women to courses under the charge of the Faculty of Arts and Sciences: it accordingly recommends that women be not admitted to courses primarily for Undergraduates; that they be rarely admitted to courses for Undergraduates and Graduates and then only on vote of the Faculty and when the course in question is taken chiefly by Graduate students; that they be admitted to courses for Graduates only on vote of the Faculty; and that for admission to all courses the consent of the Instructor in charge be secured in advance.
- (3) Although it is not within the province of the Committee to lay down the policy for Radcliffe College, the Committee expresses the hope that as the demand for graduate instruction for women increases and as the resources of Radcliffe are enlarged, it will be possible for Radcliffe to provide an increasing amount of independent instruction for Graduate students.

Subsequently the Corporation voted that women in the Graduate School of Education who wish to take courses in another department of the University shall register in Radcliffe College and that

their applications shall be presented by the authorities of Radcliffe College to the proper Faculty in Harvard University.

At the opening of the present year certain applications from women in Radcliffe College to be admitted to courses "primarily for Graduates and Undergraduates" were referred to the Committee on Instruction with power. The Committee could not grant the requests; and it proposed the following vote which was adopted by the Faculty of Arts and Sciences, October 11, 1921:

That women hereafter be admitted only to courses primarily for graduates and to these courses only on vote of the Faculty after the consent of the Instructor has been secured.

Women registered in Radcliffe College may, therefore, hereafter be admitted on the terms indicated to the most advanced courses under the Faculty of Arts and Sciences but to no others. Graduate instruction is expensive, the classes are sometimes small, and the number of teachers available is limited, so that it is frequently wise to avoid duplication of graduate instruction. These conditions do not hold for the courses in the lower groups, and the authorities of Harvard University are under no obligation of any kind to admit women to anything but the most advanced instruction. Even these limitations of space and of money — for instruction costs far more than the student pays — not to speak of other reasons, will at times make it impossible to allow women in graduate courses.

In this connection it may be noted that the fact that Radcliffe College depends wholly on Harvard teachers to provide its instruction causes occasional difficulties for either Radcliffe or Harvard, or both. Some departments find it difficult to provide as many courses for Radcliffe as are demanded by competent students; and not infrequently instructors feel certain obligations to do more teaching in Radcliffe College than they believe that it is wise for them to do. This condition of things is unfortunate for all concerned, and is certainly not to the advantage of either Radcliffe or Harvard College. Radcliffe may well consider whether in her own interests she shall not have some teachers whose work shall be done wholly or chiefly with her own students.

Most students who enter without a knowledge of French or German find that the easiest way to acquire the knowledge of one or the other of these languages, which is now required before the end of the Sophomore year, is to elect either French A or German A. The lack of opportunities for the study of German in the schools,

or the disinclination of boys to begin the study there, is shown by the large registration in German *A*, which was elected by 477 men in 1920-21, and by 654 men the present autumn. The proportion of Freshmen was 52 per cent in 1920-21, and is 77 per cent in 1921-22. This increase in the proportion of the Freshmen is to be welcomed, for it should enlarge the lamentably small number of upper class men who can use German text-books. The sudden and somewhat unexpected growth of German *A* made it necessary to secure quickly a larger number of instructors in elementary German, and to increase the number of sections in German *A* from the sixteen originally planned to twenty-six. Fortunately these changes have been on the whole satisfactorily made; but it will not be always possible to secure trained or skilful teachers on short notice. In contrast to German, French is widely taught in the schools, so that French *A* now contains 118 students against 140 in 1920-21.

The large increase in the present Freshman class has put a strain on other Departments besides that of German, especially on English and History. English *A* has a present enrolment of 776 against 609 in 1920-21, and History 1, which is virtually a required course, 711 against 545 in 1920-21. Courses so large as these bring new problems on the Departments concerned which may require their careful consideration.

The difficulty of obtaining a full corps of satisfactory assistants is a constant one, which in some Departments has become acute. Undergraduates are generally not sufficiently well trained to assist in instruction, and they obviously should never be employed to pass judgment on the work of their fellows. Most graduate students prefer to use their time wholly for their own studies, unless lack of money forces them to give a portion of their time to teaching. Probably a considerable number of young men underestimate the professional advantage gained by experience as assistants. A successful assistant is already embarked upon his teaching career; moreover, an examination of the records of men who have served in some of the larger courses will show a large proportion of men who have later attained professorial positions of importance. The scale of pay, however, is small and the work of an assistant materially diminishes the time and strength for independent study. If the University were in a position to pay assistants more than it now can do, the problem would be perhaps partially solved; but at the present time the Corporation cannot wisely increase the remuneration.

The report of last year gave a brief sketch of the plan and development of the General Final Examination for the degree, and of the Tutorial and Advisory Systems now being tried. In the current year, 1921-22, the General Examination is to be required for the first time in a number of Departments. The Divisions of Ancient and of Modern Languages and Literatures, through a joint committee which brought much wisdom to its difficult task, prepared specimen examination papers in the subjects within their several fields. These papers make clear not only the kind of questions which may be asked, but — a matter of much greater importance — show the ideals for the study of literature which the Divisions cherish. The emphasis laid on the unity of western literature by the Departments which deal with the several national literatures cannot fail to have valuable results.

The system of Tutors or Advisers, which is an essential part of the plan for a general final examination, demands a kind of teacher somewhat different from the average instructor in American colleges. The old method of hearing recitations is planned to discover whether the student has acquired a modicum of knowledge from the text book, and makes no severe demands on the one who hears the recitation; the system of lectures, which was probably at its height in this University about twenty-five years ago, is intended to impart information, give points of view, and furnish intellectual stimulus to the student; but it may become the easiest of all methods for the instructor; conferences and discussions aim to discover the student's weakness and strength, to direct his personal reading and research, to stimulate his mental activity, and to train him in correct habits of thought. Given the proper kind of teacher, the conference and discussion is the best method of instruction in most subjects, and it certainly makes wider demands on the teacher than either of the other two systems alone. Yet the recitation and the lecture have advantages which, however, can to a degree, at least, be gained with the third method. Under existing conditions all three systems and various combinations of them are necessarily employed under the Faculty of Arts and Sciences. Conference and discussion with individuals, however, must be the method used by Tutors and by Advisers who perform tutorial functions. The work was new at first. The selection and development of satisfactory Tutors has not been easy. It has been necessary to find men who possess not only wide knowledge of their general field, and who have gone far enough in some part of their subject to know from personal experience what the aims

and methods of a thorough scholar are, but who also have unusual skill in dealing sympathetically with individuals. At present the tutorial and advisory staff is well manned. The work in general is being done with skill and wisdom, and those students who have intellectual interests and ability enjoy as well as profit by the assistance and direction which they receive; moreover, the false notion that the course is the only means by which knowledge or method is to be required is gradually being displaced by saner ideas.

The Tutors work wholly with undergraduates. In many small courses for graduates, conference and discussion with the group have long been employed. The question may well be raised whether this method cannot be somewhat extended with advantage wherever small classes or sections can be secured. The answer can be given only by Departments or individual teachers.

CLIFFORD H. MOORE, *Chairman.*

THE ENGINEERING SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present the following report on the Harvard Engineering School for the year 1920-21, which is the second year of full-time instruction.

The total enrolment in the School for the academic year 1920-21 by programs of study was as follows:

Mechanical Engineering.....	52
Electrical Engineering.....	54
Electric Communication Engineering.....	14
Civil Engineering.....	38
Sanitary and Municipal Engineering.....	6
Sanitary Chemistry.....	3
Mining.....	18
Metallurgy.....	6
Industrial Chemistry.....	19
Undecided as to programme.....	25
Total	235
Students taking courses leading to Bachelor's degree.....	220
Students taking courses leading to higher degrees.....	15
Total	235

This was an increase of 103 over the registration in 1919-20.

At the mid-year period and at Commencement in 1921, nineteen candidates were awarded the degree of Bachelor of Science; six in Mechanical Engineering, nine in Electrical Engineering, two in Civil Engineering, one in Metallurgy, and one in Industrial Chemistry; and nine candidates were awarded the degree of Master of Science; one in Civil Engineering, two in Sanitary and Municipal Engineering, and six in Electric Communication Engineering; and one candidate was awarded the degree of Mining Engineer.

The work of rebuilding the laboratories has been completed, and most departments of the School now possess good working laboratories. The Cruft Laboratory, which is maintained jointly by the School and by the Division of Physics of the Faculty of Arts and Sciences, has acquired an enviable reputation in the general

field of radio engineering and in the investigation of vacuum tube phenomena. The research work of this laboratory is seriously limited by lack of funds. More than forty students spent a considerable portion of their working time in this laboratory during the year, about half of them being registered in the Engineering School, and the others under the Faculty of Arts and Sciences. The Director of the Cruft Laboratory, Professor G. W. Pierce, presents a separate report.

There have been no important changes in the teaching staff. Professor Adams was on half-time duty, and serving also as Chairman of the Engineering Division of the National Research Council in New York; he has resigned this position, and returned to the School on a full-time basis. Professor Kennelly was on half-time service. Professor A. E. Norton was absent for the year, working in manufacturing plants, and studying their methods for the purpose of reorganizing the courses in machine design in the School. Professor Graton was absent for the first half-year. With these exceptions the members of the teaching staff were on full-time service.

Nine four-year undergraduate programs of study were offered during the year, namely: mechanical, electrical, electric communication, civil, and sanitary and municipal engineering; mining; metallurgy; sanitary chemistry; and industrial chemistry. The program in "Electric Communication Engineering" which was offered for the first time, includes the fundamental courses of the department of Electrical Engineering, together with the fundamental courses in radio engineering, the telegraph, the telephone and the hydrophone, given by the staff of the Cruft Laboratory. This program has been offered to meet a rapidly growing demand. Two new programs have replaced the program of "Sanitary Engineering"; one, "Sanitary and Municipal Engineering," emphasizing the engineering side of this field; and the other, "Sanitary Chemistry," intended to prepare students to deal with the chemical, physical and biological problems of public sanitation.

For many years the University has given instruction in chemistry which has enabled many graduates to attain positions of distinction in the field of industrial chemistry. When the Engineering School was organized a four-year program leading to the professional degree of Bachelor of Science in Industrial Chemistry was established; and opportunity was provided for graduate work in the same field. But these offerings do not wholly meet the present large demand for chemical engineers. It is highly desirable,

as soon as the conditions permit, to seek funds for an increase in staff, and for the necessary equipment to enable the School to offer a program of "Chemical Engineering."

The National Research Corporation granted \$5000 to enable Professor Davis to carry on certain investigations in the field of Cryogenic Engineering, particularly in relation to the manufacture of oxygen for use in the arts and sciences. He also had a grant of \$3000 from the United States Army to carry on investigations in the same general field, with particular reference to vapor pressures and coexisting conditions of nitrogen-methane mixtures and nitrogen-helium mixtures. These funds paid for the services of three research assistants and a mechanic, and for the necessary apparatus. The work of Professor Davis and his staff is beginning to produce important results.

The Faculty desires in every way to stimulate research; in particular it is working to establish such policies as will lead the engineering industries to seek the help of the School and its staff in solving some of their fundamental problems. There are many obvious advantages to the School in having such relations with the industries; and the School on its side has much to offer them.

The plan of industrial coöperation which was authorized during the previous year was put into effect in 1920-21. By this arrangement third-year students in certain departments may have six months of experience in engineering and industrial organizations. Thirty-four students participated in this work. The Faculty is greatly indebted to the companies who employed students. In most cases the companies provided systematically arranged series of experiences in the important departments of their plants, and gave the students such opportunities as would in general be accorded only to young men who were being trained for permanent positions. Moreover the companies have employed the students during a period of industrial depression when it was obvious that their retention was only for the purpose of helping them and the School. The following companies coöperated with the School, and employed its students during the year 1920-21:

Aberthaw Construction Company, Boston, Massachusetts.

Amoskeag Mills, Manchester, New Hampshire.

Boston Bridge Works, Cambridge, Massachusetts.

Crompton and Knowles Loom Works, Worcester, Massachusetts.

Crosby Steam Gauge and Valve Company, Charlestown, Massachusetts.

Dennison Manufacturing Company, Framingham, Massachusetts.

Edison Electric Illuminating Company, Boston, Massachusetts.

Fore River Shipbuilding Corporation, Quincy, Massachusetts.

General Electric Company, Lynn, Massachusetts.
Holtzer-Cabot Electric Company, Roxbury, Massachusetts.
Hortonia Power Company, Rutland, Vermont.
Johnston-Livingston Company, New York City.
Malden Electric Company, Malden, Massachusetts.
Manning, Maxwell and Moore, Fitchburg, Massachusetts.
Northway Motors, Inc., Natick, Massachusetts.
Pacific Mills, Lawrence, Massachusetts.
Quincy Market Cold Storage Warehouse Company, Boston, Massachusetts.
Radio Corporation of America, Port Jefferson, Long Island.
Saco-Lowell Shops, Lowell, Massachusetts.
Stevens-Duryea Company, Willimansett, Massachusetts.
C. H. Tenney Company, Boston, Massachusetts.
United States Army Aerodrome, Framingham, Massachusetts.
Westinghouse Electric Company, Mansfield, Ohio.
Worthington Pump and Machinery Corporation, Cambridge, Massachusetts.

The plan of industrial coöperation has on the whole worked successfully; and its value has been demonstrated. The students have had exceptional opportunities for experience; and they have proved themselves to be both trustworthy and energetic. This plan has done distinctly more than to provide experience for the students. It has given them a real understanding of industry, and of the value of discipline; and this has reacted most favorably on the work of the class-room. The difficulties incidental to a new undertaking have been successfully met. It is the opinion of the teaching staff that the success of the plan will depend chiefly on the ability and willingness of the industries to participate. All the qualified students who desired to take this work have been placed this year, even though the industrial conditions are still very unsatisfactory.

The Engineering Camp, which had been discontinued during the war, was reopened in the summer of 1920. An eight weeks' course in plane, topographic and railroad surveying is now regularly offered there, and is open both to Engineering and to College students. The experience of teaching surveying in Cambridge during the war demonstrated anew the advantages of giving such instruction at a camp.

The five-year combined programs in engineering and business administration, which were authorized in June 1920, have aroused much interest among educators and business managers, and meet with general approval. It is too soon to predict the effect that these offerings will have upon the resort of students to the School,

but there is every reason to expect that they will be among our most attractive and valuable programs. They are planned to meet the demand in many industries for young men who are educated both for engineering and for business. It was recognized that four years is too short to give effective training in both fields; and that many students have neither the time nor the money for a four-year engineering course and a two-year course in the Business School. The Faculties of the Engineering School and of the Business School have planned and are now offering five-year programs which include (a) on the engineering side all the general and scientific training of certain four-year programs in engineering, and (b) on the business side, using the engineering training as a foundation, a well-rounded course of study in industrial management. It is believed that such a combined course of study will fit a young man to advance himself either as an engineer or as an administrator, according to his inclinations and his opportunities. Students taking the combined programs are registered in the Engineering School; but each Faculty gives its own special subjects, and the work as a whole is under the control of a joint Committee representing the two Faculties.

The School is maintaining the highest standards of scholarship for admission and for its degrees. The increase in numbers is encouraging; and the quality of the students is highly satisfactory.

H. J. HUGHES, *Dean*.

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present the Thirteenth Annual Report, being my second report, upon the Graduate School of Business Administration. This report covers the academic year 1920–21.

The total number of students continued to grow, the enrolment being 457 as compared with 412 in the preceding year. This growth was, however, wholly in the second-year class, the first-year group being slightly smaller than in the preceding year. Two factors tended to keep the first class stationary in size. The enrolment of the year before included a considerable number of men who, if it had not been for the war, would have come to the School in earlier classes; and the class graduating from the colleges in 1920 was still a war class and, therefore, relatively small. The increase in tuition fees from \$200 to \$250 between the two years had no noticeable effect. The growth in the second-year class was satisfactory. Detailed statistics appear in Appendix A.

The first class which entered the colleges of the country after the war will graduate in 1923, and this class in most colleges is much larger than the war classes now graduating. When this larger class finishes college the School must expect a considerably larger group of applicants for admission. Indeed without the increase in tuition from \$250 to \$400 (discussed later in this report) which took effect in the academic year 1921–22, many more applications for admission would have been received for that year. The number of inquiries from prospective students during the year 1920–21 was much larger than ever before. While the new increase in tuition may limit numbers for a year or two our best judgment is that the effect will be temporary only, and we are faced by the necessity of providing in the immediate future for largely increased numbers, or of enforcing some drastic limitation. Of these alternatives the limitation of numbers is the only feasible suggestion.

NECESSITY OF LIMITING NUMBERS

Our physical equipment is hopelessly inadequate. The School is scattered all over the Cambridge buildings of the University without proper administrative quarters, professors' studies, classrooms, laboratory facilities, library and reading room quarters, or dormitories. The men continue to live mainly in widely separated private houses not only in Cambridge but in Boston and the surrounding towns. The living problem is more difficult to solve for our men than for the students in most other departments because our men are here for two years only, and therefore, are not inclined to go to the expense of furnishing their own rooms. It is peculiarly difficult to knit the men into a coördinated social unit under present conditions.

The library problem is pressing, the reading room facilities being used a large part of the time to the limit of capacity. Nevertheless, by careful planning and crowding we can manage our reading room in some way until we have an entering class of perhaps 450 students. This will be possible only through the rapid development of the case system and the continued publication of case books. These books reduce the amount of time the student must spend in the library by placing in his hands a large part of his material in such form that he may use it at his room. But so far as we are able to foresee, we cannot, without a building or a group of buildings of our own, expand our library facilities beyond the point where we can accommodate an entering class of 450 men. Similar considerations apply to our other equipment. With the drop in building costs a real effort should be made to solve our need for space. We should have a group of buildings planned to accommodate 1000 students.

For educational reasons also the school must for some time take such action as may be necessary to prevent rapid growth. In developing the case system there are large problems yet to be solved in the technique of presenting cases. Much that we have done is still in a development stage. The striking progress already made has been possible only because our staff is a compact group of teachers and investigators closely associated in working out a problem in which they all are interested. This brings about the constant interchange of information and methods which is essential to rapid progress. Moreover, the amount of case material so far developed is still inadequate, particularly for the advanced courses, and while this continues to be so the attention of the instructor

should be concentrated on small groups where immediate personal contact with the student may supplement this deficiency. As the teaching material is improved through the collection of more and better problems, the instructor may handle effectively larger groups.

During the year covered by this report the teaching unit was reduced for the large first-year classes by subdivision into sections to a unit of about 150 instead of approximately 300 as it had been the year before. Such a unit may be taught successfully by the case system, but it is the maximum which we should attempt, and we are not equipped with our present staff for over three of such sections in the large first-year courses.

Through the operation of the group system of electives in the School the classes in the second year, with the exception of that in Business Policy, are much smaller and should be kept so while we are developing our problems. During the period when the case system was being created in the Law School its very novelty served as an effective limit on growth. Unfortunately this appears not to be the situation which we find in extending the system to the teaching of business.

We had last year the experience of a large and sudden growth in the size of the School with a consequent lowering of standards resulting from inadequate organization of the Faculty. To avoid a similar situation in the future and to give time for the development of the case system, the Faculty has adopted the policy of fixing in each year a limit on the number who shall be admitted in the following year, this limit to be fixed with reference to the number we can teach effectively with the staff as it exists or as provision may be made for expansion. Also before we expand the staff we must be confident that larger numbers will come to the School immediately. It requires not less than a year to organize the staff with reference to a substantial increase in size and we cannot afford to increase the number on the Faculty until we are assured of the growth to support the increased expenditures.

It is impossible at the present time to lay down as an educational policy any definitive statement of the future size to which the School may be allowed to grow, nor is there need for establishing an ultimate limit. In this School we should admit no more men than we can train without lessening the quality of the work done. Indeed the standard should constantly rise. If we ignore physical limitations, we could effectively handle a school of 1000 students, or more than twice the present size, and we have worked out in

outline the necessary organization for such a school. Beyond that it is at the present time unnecessary to go because, unless we obtain a group of buildings for the School, long before this number is reached the physical needs of the School will compel us to stop admitting students.

We may summarize the policy of the School as to limitation of numbers briefly as follows:

First, until we have adequate buildings and physical equipment the entering class cannot expand beyond 450 men.

Second, for educational reasons and to preserve our standards the Faculty will fix a limit each year which shall apply to the following year in order that the development of the case system may proceed rapidly and that the staff may be organized with reference to a reasonably definite teaching problem.

Third, we are not attempting to study the organization of the School with reference to over 1000 students.

Fourth, we should immediately have physical equipment for 1000 students. Lack of buildings should not for long be the controlling factor in the size of the School.

BASIS FOR LIMITATION OF NUMBERS

Whatever the reasons for limiting numbers the practical problems involved are serious. Shall we admit the first group who apply and present our minimum educational and personal qualifications, or shall we attempt to select the better men? If we wish to select, what method shall we pursue?

A substantial number of men who enter each year are unable to do the work successfully and are eliminated during or at the end of the first year. The character of the work and its intensity are such that many who might be successful in another environment are unable to accomplish the minimum requirements. The effect on these men is most discouraging and it would be better for them, generally speaking, if they had not come. Yet it is clearly inadvisable to lower the standard in the School for their benefit. If we can in some way eliminate most of these men of lesser intellectual calibre before admission and thus secure a more homogeneous group of students with less range of native ability between the best men and the poorest men, this will simplify our educational problem and lessen the hardship and discouragement which our present situation imposes on men who cannot do the work of the School.

HIGHER STANDARDS AND THE NEED FOR SELECTION

The requirements of the School have been raised materially during this year and the men work much harder than they did formerly. This raising of the standard has in part taken the form of an increase in the number of required courses from 4 to 5 in the first year, and from 4 courses and the thesis to $4\frac{1}{2}$ courses and the thesis in the second year. There has been no corresponding lessening of the work in the individual courses. At the same time the minimum grade required for the degree has been changed. The School no longer recommends for the degree of Master in Business Administration, men who fail in a single course but who attained an average above the pass grade. Every course taken must be passed. Moreover, the general average attained must now be well above the pass grade for particular courses.

This higher standard makes the required work much more difficult for every student. Cases where men of good intellectual calibre find themselves seriously overloaded with work are rare. In general the cases of overloading for such men are complicated by sickness or by the necessity for money making activities of one sort or another. A few men under the old conditions voluntarily took five courses. After careful consideration the Faculty decided that instead of reducing the required number of courses for everyone to the old standard of four courses to relieve cases where the new requirement created individual hardship, it would maintain the new standard generally and leave to the Dean the discretionary power to relieve such hard cases by reducing the required load to the old point for these men only. It has been necessary to exercise this discretionary power in very few cases. It is not intended for use in the case of men who because of intellectual limitations are unable to do the work of the School as fixed by the new standard. They should be sorted out if possible before admission to the School.

EXPERIMENT WITH INTELLIGENCE TESTS

As one approach to a solution of this problem of selection, we have during the past year, with a considerable degree of scepticism, conducted experiments with general intelligence tests of the type devised by the Carnegie Institute and the Scott Company. The results obtained by giving these tests to men in the School surpassed our hopes and while necessarily subject to verification and further experimentation, they give ground for hope that under

our specialized conditions a substantial use may be made of this method of testing men as one supplement to existing entrance requirements. We have no basis for broad generalization as to the value of such tests.

The tests were given and the results tabulated by Assistant Professor Starch of our staff. They indicate a marked correlation between the intelligence rating of the men, as determined by these tests, and the scholastic grades given in different courses. The results are shown on the graphic charts accompanying this report.

A few words of general explanation will serve to make these charts more readily understood. The intelligence tests consumed in all fifty minutes of time, the results being graded on a basis which takes into account both quickness and accuracy. Alertness of mind and the ability to think clearly and quickly are perhaps the qualities most satisfactorily tested. The tests are designed to rate the men so far as possible on native ability rather than on the results of education or training. The tests were given to a large part but not to all of the students in the School. The groups were chosen at random, and included all men who chanced to be in a given class on the day in question. The sample is believed to be adequate and representative both in size and quality. The records of certain foreign students who do not speak English readily were omitted from the computations.

Chart I, page 121, gives the result of the tests in general, showing the distribution of the scores for the first and second-year students. On this chart also appears a curve of the result obtained from a large number of undergraduates of various colleges.

Seventy-four per cent of the first-year men and eighty-eight per cent of the second-year men who took the tests attained grades which would have placed them in the upper half of an undergraduate group taking similar tests. This is the natural result of the process of selection which takes place at the transition from college to graduate school. Men who fail to get their degrees in college are included in the undergraduate curve, but do not get into the professional schools. It is also probable that on the whole the men of poorer calibre who finish college do not go to such schools. How far the greater maturity of the students in the Business School enables them to pass better intelligence tests, we have no basis to determine. The men in the Business School were graded on the basis of this test in five groups, A, B, C, D, E; group A being the highest and group E the lowest.

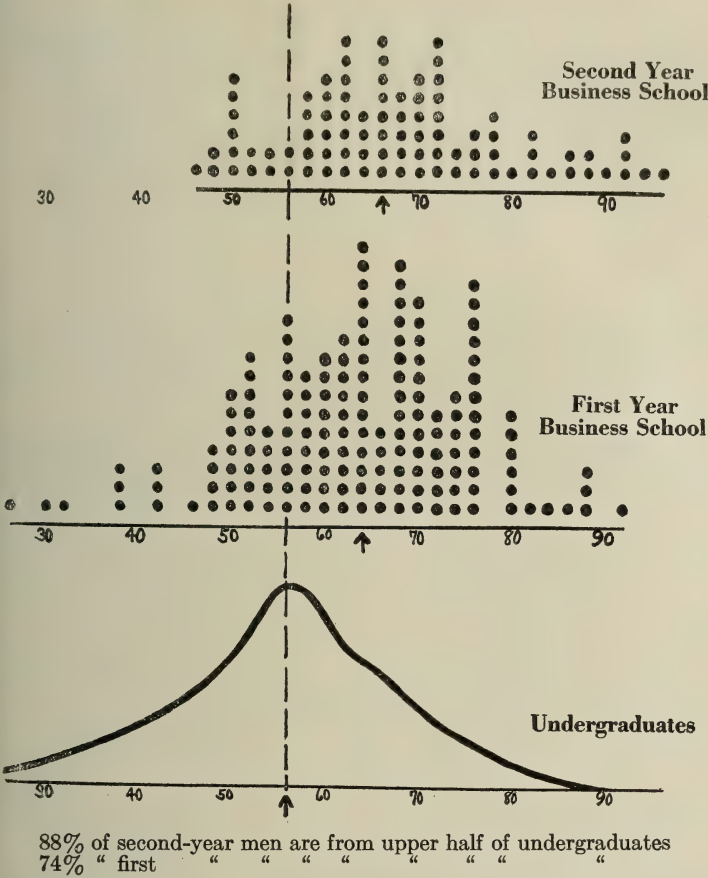


CHART I. GENERAL RESULTS OF INTELLIGENCE TEST WITH THE BUSINESS SCHOOL GROUP

Two tests were given: The Scott test and the Carnegie (Thurstone) test. These two tests were given to 176 first-year men and 94 second-year men. The tests were not compulsory. About two-thirds of the first-year students and three-fourths of the second-year students took them.

Chart I gives the distribution of the scores on the intelligence test made by the first and second-year students in the Business School in relation to each other and in relation to the distribution of a typical curve of the scores for undergraduates in the same test.

This chart is based on the Scott test and the graph for undergraduates is based on data supplied by the Scott Company. A similar comparison with the Carnegie (Thurstone) test, based on over forty colleges, shows substantially the same relations. The median scores of the respective groups are indicated by arrows at the base line.

The selection which exists between the undergraduate group generally and men who have graduated from college and continued work in a professional school is shown by the fact that 74 per cent of the first-year students and 88 per cent of the second-year students in the Business School group attained scores which would have placed them in the upper half of the undergraduate student body.

Chart II, below, shows the correlation for first-year men between the grades on these intelligence tests and the final scholarship records in the School for the year. Chart III, page 123, gives similar information as to the second-year men.

The striking fact shown by both these charts is that 100 per cent of the men who were rated A on the intelligence test stood in

FIRST-YEAR MEN, 1920-21

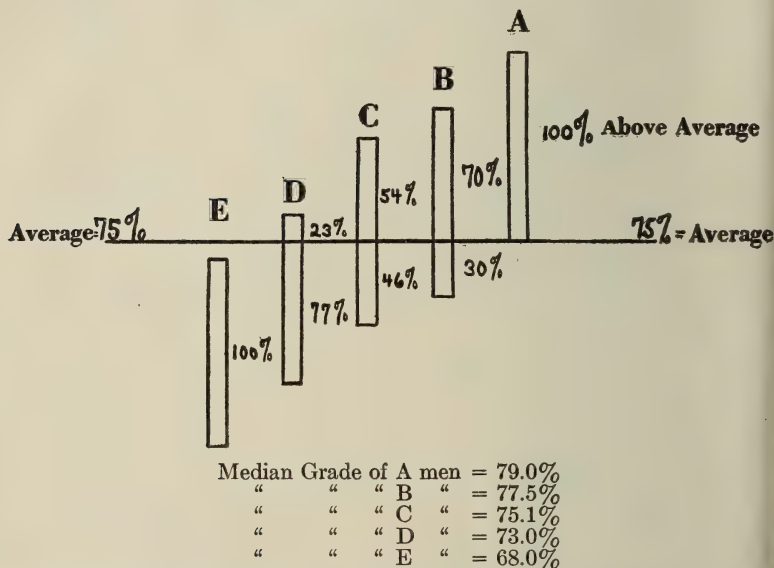


CHART II. CORRELATION BETWEEN INTELLIGENCE TESTS AND SCHOLARSHIP GRADES.
FIRST-YEAR MEN

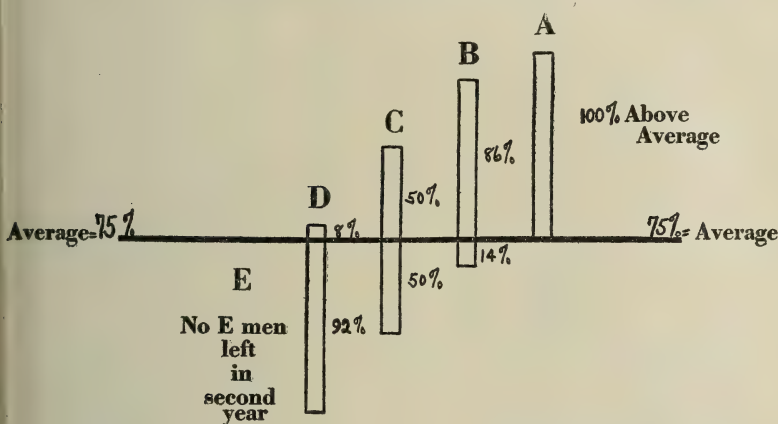
The students were divided into five groups according to their scores in the intelligence tests. These five groups are designated by the letters A, B, C, D, and E. A is the highest group, B the second, etc. Then the average of the final scholarship grades which each student had obtained in his courses was computed.

On Chart II appear the median grades in scholarship of the A men, B men, etc., on the intelligence test. The chart itself shows the proportion of men in each of the five groups whose average scholarship was above or below the general average of the School. The average grade of the School is 75, the passing grade is 65, and 85 or above is designated as "Distinction." All of the A men were above the average scholarship of the School, 70 per cent of the B men were above and 30 per cent below the average, and so on until the E group is reached with no men standing above the average in scholarship.

their regular school work above the average grade, and 100 per cent of the men receiving E on the intelligence test stood in scholarship below the average of the School. Moreover, no men in the second year group who took the test received an E rating. Obviously men of this range of ability are largely eliminated by the ordinary processes of the School or by their own action before the beginning of

the second year. This conclusion is confirmed by the record attained by the E group in the first year class. There were seven such men. Two were asked to leave during the year on account of poor scholarship, one failed or stayed away from every examination, two failed in three courses each, one failed in one course and one passed all his courses with the average grade of 71.5 per

SECOND-YEAR MEN, 1920-21



Median Grade of A men = 80.5%
 " " " B " = 77%
 " " " C " = 74.5%
 " " " D " = 72.5%

No E men in second-year class

CHART III. CORRELATION BETWEEN INTELLIGENCE TESTS AND SCHOLARSHIP
 GRADE, SECOND-YEAR MEN

Chart III shows the same facts for the second-year students. The chief additional point is that the difference between the groups is somewhat more marked. Thus a somewhat larger proportion of B men is above the average and a somewhat larger proportion of D men is below the average than was the case with the first-year men in Chart II. It will also be noted that there were no E men in the second-year group who took the test.

cent. In other words, five out of seven failed completely, one made a very unsatisfactory record and one only passed all his work.

Chart IV, page 124, shows the percentage of men of each grade in the intelligence test who failed in one or more courses during the year. No A men failed in a single course, while over 85 per cent of the E men failed in one or more courses. On the average the A men failed no courses, the B men about one-sixth of a course, the C men one-third, the D men two-thirds, and the E men over three courses.

Chart V, page 125, gives the percentage of men who received Distinction in one or more courses. No man with E rating in the intelligence test received Distinction in a single course, although each had either four or five chances. Of the ten second-year men who received the degree with distinction last year, nine had taken

FIRST-YEAR MEN, 1920-21

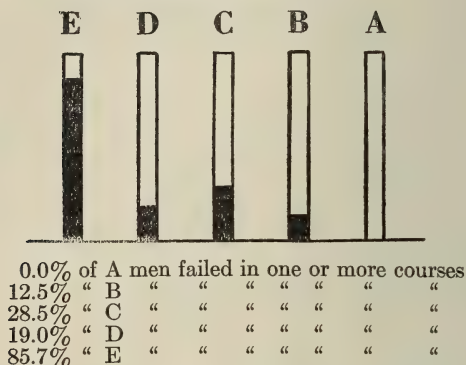


CHART IV. RELATION BETWEEN RESULTS OF INTELLIGENCE TESTS AND FAILURE IN SCHOLARSHIP. FIRST-YEAR MEN

This chart shows the proportion of men in each of the five groups on the intelligence tests who failed in one or more courses. Thus 85.7 per cent of the E men failed in one or more courses, while none of the A men failed. Men who were asked to leave the School during the year on account of poor scholarship are included as having failed.

Note a failure in the correlation here, in that relatively more men who received a rating of C in the intelligence test failed in a single course than did men who received a rating of D.

A similar chart for second-year men shows relatively more E men failing than D men, and more D men failing than C men.

the intelligence tests. Of these nine, five were in the A group and four in the B group on these tests.

Charts VI and VII, pages 126 and 127, require no especial comment.

The records made by the men on the intelligence test throw an interesting light on the relation between speed and accuracy in the work done by them. Table A on page 125 shows the extent to which these two qualities appear to go together.

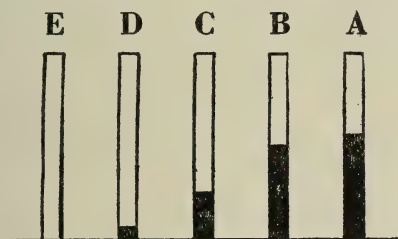
The A men who made the highest scores and were therefore the most rapid workers had the lowest proportion of errors, while the E men made approximately four times as many errors in proportion to the work done. Stating the result in another way, the A group answered two and one-half times as many questions in the time allotted as did the E men with less than two-thirds as many errors. The same general relationship exists among the other

TABLE A. — Relationship between errors and rapidity in the test:

	A	B	C	D	E
Average score exclusive of errors	145.0	124.7	102.1	81.9	58.3
Average number of errors	9.9	11.1	13.2	14.2	15.2
Percentage of errors	6.8	8.8	12.9	17.3	26.1

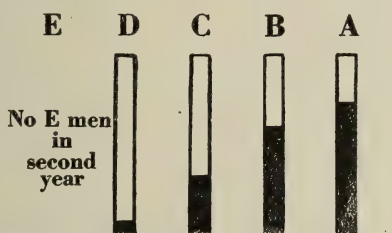
The A men answered $2\frac{1}{2}$ times as many questions as the E group with less than $\frac{2}{3}$ the actual number of errors.

FIRST-YEAR MEN, 1920-21



56.2%	of A men received Distinction in one or more courses
50.0%	" B " " " " " " "
26.8%	" C " " " " " " "
6.2%	" D " " " " " " "
0.0%	" E " " " " " " "

SECOND-YEAR MEN, 1920-21



72.2%	of A men received Distinction in one or more courses
59.1%	" B " " " " " " "
32.2%	" C " " " " " " "
8.3%	" D " " " " " " "
0.0%	No E men in second year.

CHART V. RELATION BETWEEN RESULTS OF INTELLIGENCE TESTS AND DISTINCTION GRADES

This chart shows the proportion of men in each of the five groups on the intelligence test who received the grade of "Distinction" in one or more courses. On the one hand 56.2 per cent of the A men in the first year and 72.2 per cent of the A men in the second year received "Distinction" in one or more courses. On the other hand, none of the E men received "Distinction" in any course.

Ten men received degrees with "Distinction" in June, 1921. Nine of these had taken the test. Five of the nine were A men and four were B men.

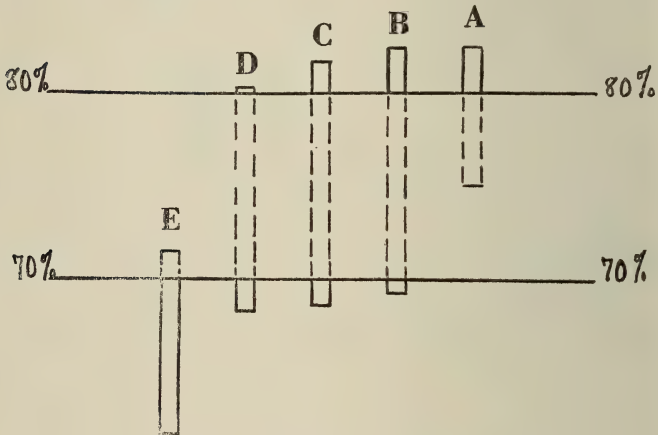
groups, namely the B, C, and D men. The faster workers make the smaller number of mistakes.

SUGGESTED USE OF INTELLIGENCE TESTS IN SELECTING AMONG CANDIDATES FOR ADMISSION

The indications are that these intelligence tests place us in possession of a method applicable to this particular School by which

FIRST-YEAR STUDENTS, 1920-21

25.0%	of A men had an average of 80 or higher
25.7%	" B " " " " " " " "
17.3%	" C " " " " " " " "
3.0%	" D " " " " " " " "
0.0%	" E " " " " " " " "



0.0%	of A men had an average below 70
8.5%	" B " " " " " " " "
13.8%	" C " " " " " " " "
17.7%	" D " " " " " " " "
85.7%	" E " " " " " " " "

CHART VI. THE RESULTS OF INTELLIGENCE TESTS AS RELATED TO (a) GOOD AND (b) POOR RECORDS FIRST-YEAR MEN

Chart VI shows the proportion of men in each of the five groups whose average scholarship was above 80, or below 70. Thus 25 per cent of the A men had an average above 80, while 85.7 per cent of the E men fell below 70. The chief difference between the A and B groups is in the fact that none of the A men fell below 75, the average of the School, while a small percentage of B men, 8.5 per cent, fell below 70.

we may sort out in advance the men who are not competent to benefit by the course of study to which they are here subjected. It is hardly worth while for an individual to come to the School who cannot pass at least a D intelligence test on the standard of marking used in these computations. His chances of failure are

too great. He would not necessarily prove incompetent as a business man. On the contrary, unquestionably a certain percentage of such men would with other methods of preparation succeed in business. Their minds may be slow, but otherwise of good quality. Such men, however, should not be admitted unless the School is prepared to change its standards and its load factor to such an extent as to make it possible for them to pass through the course

SECOND-YEAR STUDENTS, 1920-21

61.1%	of A men had an average of 80 or higher
40.9%	" B " " " " " " " "
11.8%	" C " " " " " " " "
0.0%	" D " " " " " " " "
	No E men left in second year

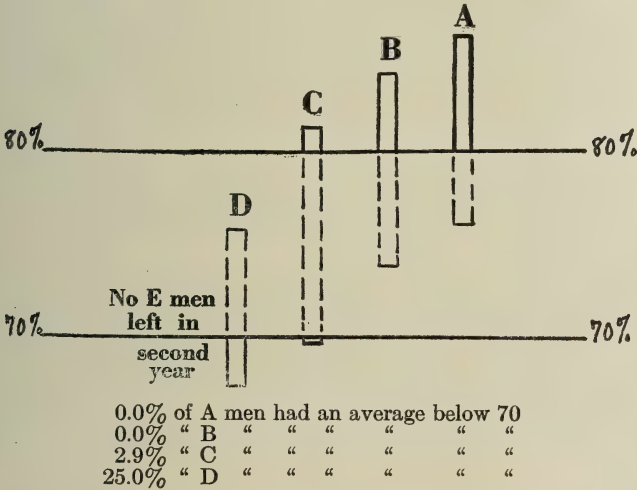


CHART VII. THE RESULTS OF INTELLIGENCE TESTS AS RELATED TO (a) Good and (b) Poor Records. SECOND-YEAR MEN

Chart VII shows corresponding facts for the second-year men. The chief difference is that a larger proportion of A and B men had an average scholarship above 80 than was the case for the first-year men.

successfully. The intelligence tests appear to rate men on qualities necessary to success in this School.

Our present intention, therefore, is to attempt on an experimental and tentative basis sorting applicants for admission by the use in part of intelligence tests similar to those above referred to. Of course in every case we shall also investigate the personal quality of the applicant, and use all other available information.

If the applicant presents a transcript of his college record which indicates that he had thoroughly satisfactory grades and stood

well up in his class in relation to other students, no intelligence test is necessary in his case. He could not have had such a record without possessing the ability to pass satisfactorily any such test which we might give him. If, on the other hand, his college record is not clearly satisfactory, we hope to determine through such a test whether this less satisfactory record resulted from the diffusion of his college interests among activities outside the classroom or was due to his lesser mental capacity. If the former, we shall admit him to the School. If his unsatisfactory college record resulted from apparent lack of capacity, this record would presumably be repeated in the School. In principle any limitation of numbers not based on the quality of the students eliminated appears to us most objectionable. Through these tests and the careful investigation of personal quality we may make progress toward establishing proper standards for selection. All of the above statements must be considered subject to modification with further experience.

THE PRESENT CONDITION OF THE SCHOOL AS SHOWN BY THE INTELLIGENCE TESTS

In addition to the value which these intelligence tests may have as a method of selecting among applicants for admission to the School, they appear to me to have a considerable bearing on the present condition of the School itself. The marked correlation which exists between the ratings on these tests and the scholarship grades given in the School would be impossible were it not for three things.

First. The intelligence tests rate the men on qualities necessary for success in this School.

Second. The men in the School are working very close to the limit of their intellectual capacity. If there were any considerable number of men of good calibre in the School who were idle, this would result in a failure of such men to attain the scholarship grades which they are qualified intellectually to secure. Undoubtedly there are instances of this sort, but not enough to affect seriously the averages.

Third. The marking system in the School in the large first-year classes particularly is on a reasonably satisfactory basis. Otherwise this correlation would be impossible. A careful study of the marking system was made by the Faculty last year.

FINANCIAL PROBLEMS

During the year the Governing Boards raised the annual tuition fee in the Business School from \$250 to \$400 per annum to take effect in the academic year 1921-22. This increase, while substantially larger than in any other department of the University, was in accordance with the recommendation of the Faculty. It follows an increase in this School from \$200 to \$250 per annum which took effect in the year covered by this report. The tuition has, therefore, doubled in two years. This drastic action was necessary for the following reasons:

The financial statement for the year shows an operating deficit of over \$70,000. In the year before a deficit of over \$20,000 was reduced by gifts and transfers not available this year to \$8,708.36. The School had run behind, therefore, at the end of this school year, over \$80,000.

The serious increase in the deficit was caused by the growth of the School and by the fact that under a depreciated currency the tuition fee became inadequate. Practically nothing is available for the School out of the new Endowment Fund raised by the Alumni, and the endowment of the School itself has always been limited in amount. We were running behind \$150 per annum for each student. It was clear that an increase in number would not result in decreased cost per student, unless we reduced the quality of the instruction. Our problem, therefore, came to this: if the University did not raise the tuition fee we needed over \$1,000,000 increased endowment to provide for the present annual deficit, and in the future we should need an additional endowment of at least \$250,000 to cover the \$15,000 additional annual deficit caused by each increase of one hundred students. The difficulty of financing through endowment appeared insuperable.

Friends of the School were consulted to determine on what basis the School may most surely rely on their coöperation. These men agree in thinking that business education should not be conducted on the basis of annual deficits incurred by giving training below cost, but that the actual cost properly chargeable to the student in the School should (after deducting the income from the very moderate endowment fund of the School) be met by the tuition fee. This is also the view of the Faculty.

There are, however, certain expenditures essential to the future development of the School but not incurred for the benefit of the present student and therefore not properly a part of the cost of his

training. Such expenditures are generally temporary in their nature. For example we should keep the Faculty organized ahead of the actual needs of any one year to prepare for increasing numbers in the following year; thus preventing periods of readjustment which affect the quality of the instruction. While such appointments may cause temporary deficits, the tuition fee as the School grows will finance the expenditures required. In addition to this type of development charge, the initial collection of problems for the extension of the case system required a considerable research expenditure by the School. When the case system is once installed the expense of keeping it up to date should be considered a part of the cost of instruction, but this initial cost is in the nature of a capital expense. It is improper in a period of rapid development like the present one to include such development and capital expenditures in the tuition fees. It is also improper to make good the deficit of the School (at the end of this year approximately \$80,000) by charging this deficit against future students.

After eliminating all such items on a fair accounting basis, the expense properly chargeable to the individual now in the School was found to be approximately \$400 a year. The only possibility of a sane financial plan lay therefore in increasing the tuition fee to \$400 per annum and this was recommended.

With such an increase, adequate provision must be made for loan funds so that students who are not able to pay the increased tuition may secure assistance, not as charity but on a business basis. The need for such loan funds is pressing, and we should have not less than \$25,000 for this purpose in the immediate future. The School does not desire any non-competitive scholarships. We are of opinion that no student should come here who is unwilling at some time to pay the cost of his training.

The Faculty believes that with adequate loan funds the increase in tuition fees will not decrease in the long run the number of men in the School or in any material way change the type of students. Indeed we anticipate that the action taken will enhance the prestige of the School among business men and therefore with future students.

PROGRESS IN THE CASE SYSTEM

Satisfactory progress was made during the academic year under review and during the summer just past in the creation of adequate teaching material for the case system. I referred last year to the

first case book produced by the staff, Copeland's "Marketing Problems," published in time to be used during the year. Several other case books have since been prepared by the staff. Schaub and Isaacs' "The Law in Business Problems," Lincoln's "Problems in Business Finance," Dewing's pamphlet of "Problems" to accompany his "Financial Policy of Corporations" and Tosdal's "Problems in Sales Management" have already been published; David's "Retail Store Management Problems" is expected from the press within a few weeks and will be used by classes this year. In addition to these completed case books a substantial part of the material has been collected for case books in Factory Management, Labor Relations and Banking, while beginnings have been made in other directions. The first-year courses are now better equipped with problems than the advanced courses.

Particular mention should be made of the fact that practically all the material for these case books is both original in conception and novel in the technique of its presentation. Much of it was tried out in class-room in the form of mimeographed sheets. The extent of this experimental work is perhaps best illustrated by the number of mimeographed sheets of problems prepared by the School during the year. Ninety-four thousand nine hundred and fifty-four (94,954) sheets were prepared for distribution between November 1, 1920 and July 1, 1921. Inevitably in a rapid development of this nature many interesting questions of technique, method and substance arise. These naturally group themselves around the gathering of this new type of material, its presentation in form for class-room use, and the actual use of the material for teaching.

In gathering material, two methods have been used. In particular cases members of the staff have gathered their own material. For example, in view of the great importance of securing adequate material for a new course in Industrial Finance which was required of practically the entire first-year class, Assistant Professor Lincoln's teaching load was lightened last year and the time thus made available was used by him in gathering a mass of such material. Professor Lincoln in this way made such progress that he was enabled to finish this summer his case book "Problems in Business Finance." This was, however, an unusual situation.

The year confirms my judgment that the greatest progress in obtaining case material will be made by a judicious combination of the efforts of the instructor and the research facilities and organization of the Bureau of Business Research. The collection of actual

executive problems with the attendant facts needed for teaching purposes is primarily a research task, and should be organized as such. When this is possible, great saving of time is realized. Organized research, however, can be conducted only where funds are available to support it, and such research is inevitably inefficient and expensive until a background of experience in methods has been developed and an organization trained. The year was satisfactory in these respects. Through the gift of Mr. Alvan T. Simonds, '99, approximately \$5,000 became available early in the year for use in gathering labor problems. With this fund methods of gathering and presenting such cases were worked out through the Bureau of Business Research. Before the fund was exhausted other moneys were made available by friends of the School, and altogether about \$25,000 has been spent up to October 1, 1921 in gathering problems. The Bureau is now in a position to do effective work in collecting cases both economically and skillfully.

Various methods were tried by the Bureau experimentally before the technique developed to a point where the cost was within reasonable bounds. The largest results are obtained from the least expenditure when the field agent of the Bureau goes to the business man with a fully correlated outline of subjects which he wishes illustrated by problems, and where possible with specific suggestions from the instructor as to the type of problem which the particular business man is likely to be in a position to furnish. He should also be in a position to furnish the business man with illustrative cases to show the type of material we need.

In this research the Bureau of Business Research does its work for the instructor, according to his general directions and under classification of the subject adopted by him, but the skill and technique developed by the Bureau while working in other fields is of course available. Thus the Bureau becomes the center for an interchange of valuable methods without sacrificing the individuality of the particular instructor.

In presenting cases for class-room use a variety of methods and approaches is being worked out. No effort at uniformity is being made and in fact the contrary is true. A study of the several case books already published or in press will illustrate the wide differences in approach adopted by different teachers on the staff, and within the subject matter of each case book various types of material and methods of presentation are worked out. Only prolonged experience in actual teaching will tend to standardize type and such experience may even bring out the necessity for more

rather than fewer kinds of problems. A few points, however, stand out from our experience to date. In the first place much of interest is gained by including enough facts in a problem so that the case has the atmosphere and detail of reality. Moreover, in most fields of business on account of the infinite complexity of technique, the student cannot in general afford time to study facts considered solely as facts. There are far too many of them. One advantage of the case system is that problems properly presented furnish an opportunity for the student to acquire a broad acquaintance with both technical and general information about diverse fields of industry, not by their study as disassociated facts but as an incident in the intellectual process of working out decisions. This is an easy and natural way to acquire information which is wholly consistent with the more important task of training the mind to analyze and reach decisions.

Few cases are found ready-made. Although every question that involves decision by an executive is a problem, nevertheless the business man has not crystallized these questions into the form of cases. It has been the task of the instructor or the field agent of the Bureau to obtain facts which form the basis for and illustrate each point that it is desired to bring out in a problem. Then these facts, with the identity of the firm disguised, are worked into problem form. The problems have been of three general types: (1) the determination of major policies, such as those that involve the business as a whole or its relations to other business, to the general public, or to the economic and social background of business; (2) the determination of internal policies, such as the policy to be followed in a single department; (3) the interpretation and application of policies to individual cases.

In numerous problems it is advisable to include both relevant and irrelevant material in order that the student may obtain practice in selecting the facts that apply to the specific case in hand. The problems ordinarily do not require the student to collect new facts not included in the statement of the case; the material or known facts in the main are stated and the problem involves the analysis and use of these facts.

The greater emphasis on the presentation of facts in problems used for teaching business as compared with our initial practice and with cases used in teaching law, represents perhaps the most important development of the year in methods. The compiler of law case book is interested mainly in teaching the law and has constantly in mind the legal method of thought with its large

measure of dependence on precedent and authority for the handling of new legal problems. For this purpose, the facts are often summarized in a brief statement or disposed of by the finding of a court or jury. In teaching business practices and precedents have no weight of authority behind them but every fact of business which can be brought in is an asset to the student, giving him a broader foundation for executive judgment. Moreover, he must have brought home to him the extreme difficulty of really determining facts and of giving them proper relative weight. A problem adequately stated, in the discussion of which it is possible for the student to say "But I can't make out what the facts are. Why did this party to the negotiation say what he did?" — such a problem may be most effective in teaching the art of negotiation.

Certain types of business problems are much more difficult to put into shape for teaching than others. For example, Factory Management problems with their infinitely varied industrial background and technique and with the limitations imposed on the problem by the factory building and equipment, are difficult to present in such a way that the student may visualize the facts clearly. There is much less difficulty in stating a problem in Marketing or in Banking because it requires no stretch of the imagination for the student to obtain a clear conception of the problem from a printed page. This is the ordinary medium for stating such problems. For these reasons the descriptive material for cases in Factory Management and Industrial Accounting must be much more elaborate and much more carefully prepared than similar material in other subjects. Outlines and descriptions of industrial processes must be worked out in a wide variety of fields. Enough has been accomplished, however, to convince us that the difference is one of degree only and that cases in Factory Management can be stated effectively if effort enough can be put into the research work for their preparation and presentation.

In the use of our cases in teaching certain differences appear compared with the teaching of law. The business case usually (though not invariably) differs radically from the law case similarly used in that it contains no statement of the actual decision reached by the business man. Moreover the methods of approach by which decisions are reached are not included in any reasonable opinion similar to the opinion of the court and most business cases admit of more than one solution. These differences caused us some concern in the beginning and in practice they clearly impose on the teacher of business a definite obligation to finish the class-room

discussion of each case with a clean cut summary of the reasons and analogies which appeal to him as most important for its solution. When this is done the material in its present form has important advantages. Among these is the practical compulsion to independent thought by the student before the problem is taken up in class.

Unquestionably our technique of presenting problems for classroom purposes and our class-room methods will develop through experience into something quite different from our present practices. It is nevertheless clear that the case system as we now know represents a substantial advance over our previous methods and that it should be extended rapidly into other business subjects. This requires the expenditure of considerable sums of money or the alternative an otherwise unnecessary delay of years of time. The School should certainly be able in some way to obtain these funds and save the time. We need not less than \$35,000 a year to spend on this research for several years to come.

One of the important by-products of the work of the School and the Bureau in seeking problems is the increased interest in the School which is shown by business men. For example, during this summer several firms have sent representatives to Cambridge who spent from three to six days in conference with agents of the Bureau for the preparation of problems in their industries. Several of these men having learned the Bureau's methods submitted other problems after returning to their regular occupations. Other business men who have seen samples of the work done in the School have become interested enough to submit basic material for problems voluntarily, and it is a frequent experience that executives interviewed ask for collections of problems as soon as they are made available in order that they may use them in training their own men.

ORIENTING FIRST-YEAR STUDENTS IN THE SCHOOL

One of our real difficulties has been that of rapidly assimilating the graduates of a large number of different colleges into a coordinated group and of introducing them to the methods of instruction employed in the School. This is another difficulty which arises largely from the increased size of the School. No organized effort was made along these lines until it became apparent in the spring of the year 1919-20 that something must be done to define the School adequately to the first-year men. A very considerable amount of dissatisfaction arose at that time because the students

did not understand what the School was trying to accomplish and were consequently discontented with the methods in use. This dissatisfaction took the form in large measure of requests for more instruction of immediate practical value, although the aim of the School was very definite that the training given should be valuable after the early period of probation in business rather than during that period.

On the basis of this experience and to avoid if possible a repetition of the conditions, an introductory group of lectures was given to the first-year men in the beginning of the year covered by this report. This group of lectures covered the organization of the School from an educational and administrative point of view; the aims of the School and its relation to the student; the things which the staff is attempting to accomplish, and especially the things which it is not attempting to accomplish; the methods adopted for the purpose of accomplishing these objects, with a somewhat careful explanation of the case system and its relation to training for business; general instruction in the gathering of material for and the presentation of written reports; the use of the library; and similar subjects important to the student in all of the work in the School rather than for any particular course. Following these lectures, a group of lectures was presented by business men who spoke from personal experience about the various business careers for which the School trains. The subjects of these lectures were comparable to the study groups in the School — manufacturing, marketing, banking, finance, etc. — and the lectures were intended to assist the student to choose intelligently among these careers and therefore to select his study group in the School.

The result of the lectures was most satisfactory. No misunderstanding as to the scope and function of the School similar to that which had arisen in the previous year was noticeable at any time during the year. Nevertheless, it was evident as the year went on that the first-year class did not realize the nature of business as a coördinated subject. On the contrary, the typical first-year man at the end of the year seemed to have studied his individual courses with little conception of their interrelation. A problem in accounting was to him simply a problem in accounting and a problem in finance only a problem in finance. He had no clear understanding of the usefulness of factory management training for the accountant. He wished in far too many cases to make himself into a narrow specialist.

This failure to see the interrelations of business was not noticeable to any considerable extent in the second-year group largely through the effect of the course in Business Policy. This course consists of a long series of problems presented by business men who are unaware of the arbitrary divisions of the subject matter of business adopted by the School for convenience in teaching and who therefore submit problems which customarily go across the subject matter of various courses. Out of such problems the men rapidly gain a conception of the interdependence of business subjects.

If we could include in our first year an introductory course on the scope of business similar to the general courses on business organization given in many of the undergraduate collegiate business schools, we might change this situation through such a course. This solution is not practicable because of the pressure of more important courses. Yet there is great need that men should from the beginning of their work build toward a coördinated structure of training rather than toward isolated units whose interrelationship is beyond their vision. In the effort to bring about this condition we conceived the possibility during the year of giving the first-year class immediately after their arrival in the School a very complicated business problem which should for its solution depend upon the subject matter of a large part of the courses given in the School. Of course such a problem would be beyond the capacity of every man in the class. It was nevertheless to be presented for their consideration and after a careful study by them discussed by the instructor. This discussion was planned to serve as an object lesson in the preliminary analysis of a complicated business problem, and at the same time to bring out the relation of the problem to all the different groups of courses in the School. In this way the student might at once realize how the courses in the School work together as preparation for the solution of a single executive problem while at the same time he might acquire a more adequate conception of the general and interlocking nature of business problems.

This experiment was carried out at the opening of the current academic year with exactly the desired result.

ORIENTING GRADUATES OF THE SCHOOL IN BUSINESS

A similar group of personal problems of orientation arises with reference to the start which the student upon graduation must make in business. To help in this transition period a group of

lectures has been instituted at the end of the second year in the School covering some of the major problems which the student must face in his early business life. The interest taken by second-year men in this group of lectures has been very great and we believe that much good has been accomplished. The principal gain has perhaps been that a larger proportion of the students now leave the School fully expecting to start at or near the bottom of the line, to learn the fundamentals of the industry in which they find themselves, and to study their surroundings both industrial and personal for a considerable period, before they look for rapid promotion. They are thinking of themselves in relation to their new environment and they are building on a much surer foundation. Judging from the comments of business men a satisfactory improvement in their attitude along these lines has been accomplished.

THE POLICY OF THE SCHOOL WITH REFERENCE TO RECOMMENDING MEN FOR PERMANENT POSITIONS

During the year we have had under serious consideration the policy which should be followed in recommending men for permanent positions. In the old days the Dean could make such recommendations in practically every case upon his personal knowledge of the men involved. With the increased size of the School and the larger number of cases where graduates of the School refer to us after they have been out for a few years, this has become an inadequate basis upon which to act. During the year therefore we worked out a careful system of rating the men not only on scholarship but on their personal qualities, this rating being made by several members of the staff including the Dean's office rather than by the Dean's office alone. The plan was put into operation as far as practicable and every man in the second-year class was rated by at least two members of the staff in addition to the Dean's office. As a matter of permanent policy, it is expected that every second-year man will in the future be rated by five members of the staff. These composite ratings are entered on a record card in the Dean's office which contains also a photograph of the student and his school record. In making recommendations we now have both the scholastic record of the man and a considered judgment of members of the staff covering his personal qualities. A reproduction of this rating card is printed on page 139.

So far the results of this system have been most satisfactory and in writing letters of recommendation we are able to write with

RATING CARD — REDUCED SCALE REPRODUCTION

I. Personal and Mental Qualities. Rating for first year in black; for second year in red

1st year
rating by:

Personality	Unsatisfactory	Weak	Average	Good	Exceptional
Industry	Unsatisfactory	Indifferent	Average	Good	Exceptional
Judgment & Common Sense	Unsatisfactory	Poor	Average	Good	Usually sound and keen
Reliability	Unsatisfactory	Careless	Average	Conscientious	Absolutely dependable
Initiative	Unsatisfactory		Average		Exceptional
Coöperation	Unsatisfactory	Little coöperation	Average	Good	Exceptional
Native Ability	Unsatisfactory	Weak	Average	Good	Exceptional

2d year
rating by:

II. Types of Work					
Executive					
A. Planning	Unsatisfactory	Inferior	Average	Good	Exceptional
B. Handling Men	Unsatisfactory	Inferior	Average	Good	Exceptional
Salesmanship	Unsatisfactory	Inferior	Average	Good	Exceptional
Analytical Work	Unsatisfactory	Inferior	Average	Good	Exceptional

Note: Highest and lowest grade indicated by initials of instructor.

SUMMER EMPLOYMENT

Personality	Unsatisfactory	Weak	Average	Good	Exceptional
Industry	Unsatisfactory	Indifferent	Average	Good	Exceptional
Judgment & Common Sense	Unsatisfactory	Poor	Average	Good	Usually sound and keen
Reliability: Accuracy	Unsatisfactory	Careless	Average	Conscientious	Absolutely dependable
Initiative	Unsatisfactory		Average		Exceptional
Coöperation	Unsatisfactory	Little Coöperation	Average	Good	Exceptional
Native Ability	Unsatisfactory	Weak	Average	Good	Exceptional

Report submitted by:

Position:

Firm:

Address:

Nature of position:

Position after leaving the School:

PHOTOGRAPH

Psychological
Test Rating:

Medical
Examination:

Firm:

Address:

Position:

Dates employed:

Comments:

far more assurance and confidence in the fairness of the recommendation than was formerly possible.

We have also during this year given serious consideration to another phase of the problem of recommending men, namely, the extent to which the office should find positions for men who had rather unsatisfactory or merely passable records. Business men who apply to us for men desire a recommendation based on our best judgment as to the man's capacity for a particular position which is often specified with some detail and more and more they ask for men of high scholarship. We decided last fall that the School would in the future take the initiative in seeking positions only for men who by the quality of their work and impression which they made on their associates in the School affirmatively demonstrate the right to such assistance, leaving the other men to find their own positions. Under ordinary circumstances the School does not recommend for permanent positions men who have spent only one year in the School.

This decision to recommend affirmatively only men with thoroughly good records is more in the nature of a definition of existing practices than of a radical departure from precedent, but this year on account of business conditions we should have been obliged in any event to adopt the policy outlined. We had the opportunity to place a substantially larger number of men on the basis of our strong recommendation covering both personality and scholarship than there were men in the graduating class whom we could recommend in this way. On the other hand we had few chances to place men without such a recommendation. Employers who came to the School looking for men said in substance that under the business conditions of last April and May they were discharging men but that if we had exceptional men they would be glad to hire them.

We believe that this will be the best permanent policy because in the long run it will make the School's recommendation carry more weight with employers, and because it has already increased to a marked degree the desire of students to accomplish a real competitive success while here. In business a man constantly tries himself out in competition with his fellows and his relative success or failure depends largely upon this try-out. The men in the School now realize that their success in doing the work of the School, including the personal impression which they make on the staff, will influence largely the kind of opportunity which is open to them on graduation. Even under the business conditions of last

year the situations obtained on the recommendation of the School were most attractive. This is reacting very satisfactorily on the quality of work done in the School.

One of the interesting developments of the year is the large increase in the number of employers who come in person to the School seeking our graduates.

TRAINING MEN FOR TEACHING BUSINESS

Perhaps the most serious tasks of all facing collegiate business schools generally are in the first instance that of finding adequately equipped teachers and then of making the opportunities attractive enough to offset the continued temptation to go into business. The traditional training in economics fails to give the intimate touch with industrial conditions and workaday tasks of the business man which is part of the necessary equipment of at least a large portion of the business school staff. The engineering training given in the best technical schools does not provide the essential economic basis upon which much of the instruction should rest. Neither can these business schools rely at the present time upon converted business men to supply their needs for teachers; for not only do such business men inevitably lack both the economic and the broad technical background, but they are deterred by the difficulties which they see in the teaching of business. Nevertheless if business is to continue taking our men out of teaching, we must develop methods of obtaining teachers from business.

One of the difficulties of using business men as teachers is that the lecture and the text book are both in their nature far away from the practical experience of such men. I believe that, as systematic case books are developed, more and more business men will be attracted to teaching business subjects, because they are in the habit of discussing business problems with their associates and the transition to teaching will therefore be less difficult. Until such books are published however, and to a large extent permanently, the main reliance for teachers must be upon men who have an economic training coupled in the long run with training in schools like ours. Such men will particularly need business contacts which will enable them to correlate their training with practical everyday life in business. It is important that wherever possible members of the staff with such training should engage in consulting work or in part-time work in business and thus supplement their other experience. A considerable number of our present staff are en-

gaged in work of this nature. Such work lessens the risk that men will leave to take business opportunities.

The entire lack of preparation for a depression with which innumerable executives met the serious business conditions of the last two years is conclusive evidence of their lamentable lack of knowledge of the broad economic background of business and how it affects their own affairs. There is much need for the extension of economic thought to the point where business men understand its general scope and know how to apply it to their individual problems. One of the principal functions of a School such as this should be to bring together on its staff a group of men partly trained in economics, partly in business, and to some extent actually engaged in business, who by working to a common end may do their part to make available for business men in their several fields the best thought of the economists. For this purpose the approach used must be the business approach.

The opportunities in this and other collegiate business schools are very attractive to men interested in teaching. During the year just passed we had over fifty requests from colleges and universities for graduates of this School to teach business, and we are already in a position to foresee a group of able young men coming to the School for training which shall prepare them for the teaching of business as a career. To meet this situation the Faculty this year spent a considerable amount of time upon the kind of training such men should receive and the responsibility of this School for furnishing such training. As a result of this study, we have recommended to the Governing Boards that the degree of Doctor of Commercial Science should be granted on the recommendation of this Faculty, this degree being intended for men who train themselves for careers in teaching business or in research. Their training would include economic theory and history, an adequate grasp of business subjects taught in this School and a period of actual experience in industry. The normal course of study for this degree would be differentiated from the work for the degree of Master in Business Administration at the end of the first year and would require at least three years. Men who wait until they have taken the Master's Degree before preparing for the Doctor's Degree would naturally require one year more of preparation than would otherwise be necessary. This recommendation is now pending before the Governing Boards.

RELATION WITH OTHER COLLEGIATE BUSINESS SCHOOLS

We have made an effort to solve the problems which are raised when men come to us from other business schools. Such men have studied business subjects and naturally wish fair consideration for such work. On the other hand, the standard of work expected of undergraduates is necessarily less severe than that expected in this School because the students are less mature. After consulting with the Deans of various undergraduate schools, the following solution was adopted.

Oral or written examinations covering the general scope of the introductory courses in Accounting, Industrial Management, Marketing, and Banking or Industrial Finance are conducted early in the school year. A student who passes any such examination satisfactorily is excused from the course at the discretion of the instructor. A student who is deficient in part of the work of a course is allowed to take (a) special work in such part of the field covered by the course as his examination may indicate him to be deficient, or (b) such special coördinating work as is prescribed by the Faculty. Such men may be allowed simultaneously to take advanced work in the same subject.

The test applied in each case is the actual attainment of the student, and if he has a satisfactory background he may be excused from any of the introductory courses. This solution appears to be satisfactory.

Students who are excused from introductory courses on examination are required to elect other courses to fill out a complete year's program. Two years work at this School is required of such men unless after completing at least one year of graduate work in an approved business school they are admitted to advanced standing. Unnecessary duplication of work is, however, avoided.

CHANGES IN THE STAFF

With keen regret I record the loss sustained by the School through the resignation of Professor Lincoln F. Schaub, who has become Treasurer of the Pacific Development Company, New York City. Professor Schaub's leaving is felt particularly by his associates because of his long continued service with the School, the important part he has taken in its development, and especially because of his sound judgment and humanity. Professor Oliver L. W. Sprague is taking a Sabbatical Year during 1921-22, and

Professor G. B. Roorbach was given leave of absence for 1921-22 at the request of Honorable Herbert Hoover, Secretary of Commerce, that he might do important special work in that department. Assistant Professor Gries has left the School to become associated with the Department of Commerce as Chief of the Division of Building.

Several new members have been added to the staff this last year. Thomas H. Sanders, Ph.D., was appointed Assistant Professor of Accounting to serve from September 1, 1921. He takes the place of Assistant Professor J. Hugh Jackson whose resignation was regretfully accepted. Three new lecturers were appointed for 1921-22: Ripley L. Dana, of Pillsbury, Dana & Young, Boston, as lecturer on Business Law; Fred T. Field, of Goodwin, Procter, Field & Hoar, Boston, also as lecturer on Business Law; and James E. McGrath, Foreign Trade Department, First National Bank of Boston, as lecturer on Latin-American Trade. Clinton P. Biddle was appointed Assistant Dean and Instructor in Finance. Charles C. Eaton was appointed Librarian of the School.

The following new instructors were appointed: Arthur W. Hanson in Accounting, Windsor A. Hosmer in Business Policy, Gorton James and Charles A. Jones in Industrial Management, and J. Nelson Spaeth in Lumbering.

The following promotions were made: Henry H. Farquhar was appointed Assistant Professor of Industrial Management; Edmond E. Lincoln, Assistant Professor of Finance; and Donald K. David Assistant Professor of Marketing. Professor David continues as Assistant Dean.

The courses open to the public without charge this year under the terms of the will of George H. Leatherbee were Income Tax, Traffic Management, Foreign Trade Methods, and Foreign Exchange and Foreign Investments.

ENTRANCE REQUIREMENTS

Beginning with the academic year 1921-22 applicants for entrance to the School must present a signed application accompanied by a registration fee of ten dollars and a certified transcript of their college record. Candidates are also required to file a statement of the work which they have covered in Economics since work in the Principles of Economics is now a prerequisite to admission.

LOAN FUNDS

During the year 1920-21, loans to students were made from the Business School Loan Fund to the amount of one thousand eight hundred and thirty-five dollars (\$1835). Gifts from the alumni amounted to six hundred and fifty dollars (\$650). Repayments during the year amounted to one thousand four hundred and seventy dollars, and nineteen cents (\$1470.19), and the year ended with a balance of one thousand three hundred and twenty-seven dollars and sixty-two cents (\$1327.62).

Loans from the Fechheimer Loan Fund were made to the amount of three thousand seventy-seven dollars and thirty-seven cents (\$3077.37). Repayments were made of one hundred and fifty dollars (\$150), leaving a balance at the end of the year of two thousand three hundred forty-two dollars and sixty-three cents (\$2342.63).

On March 13, 1921, the School received an anonymous gift of five thousand dollars (\$5000), the principal and income of which is to be loaned to needy students in furthering their studies. No loans were made from this Fund during 1920-21.

In view of the increase in tuition for 1921-22 heavy demands are being made on the loan funds of the School, and there is great need of money for this purpose.

MAY PRIZES

The prizes offered annually by Mr. George Oliver May of New York for the two best graduation theses were awarded for 1920-21 as follows: first prize of one hundred dollars to Franklin W. Ryan, A.B., Baker University, 1910, for his thesis on "An Analysis of the Cotton Mill Sales Note from the Viewpoint of Bank Credit Administration"; second prize of fifty dollars to Edison H. Baker, S.B., Allegheny College, 1917, A.M., Columbia University, 1920, for his thesis on "A Study of the Financial Policies of Selected Automobile Manufacturers."

ADVISORS

A system of faculty advisors was adopted in the spring of 1921. All the second-year students were divided into groups according to their field of concentration and were assigned to different members of the staff, whose obligation it is to become acquainted personally with the needs and the personal qualities of the men assigned them.

COÖPERATION OF BUSINESS MEN

I am glad to acknowledge the active coöperation and assistance of the many business men who have aided the instruction in the School by giving lectures and business problems in various courses. A complete list of these outside lecturers with the subjects of their lectures or problems is attached as Appendix C.

Various statistical tables and informational appendices accompany this report.

WALLACE B. DONHAM, *Dean.*

APPENDIX A

ENROLMENT STATISTICS

Year	First-year Students	Second-year Students	Graduate Students	Special Students	Total	Harvard Graduates	Graduates of Other Colleges	Per Cent of College Graduates
1908-09	33	...	...	47	80	42	16	72.5
1909-10	42	8	...	41	91	42	23	71.4
1910-11	43	10	...	41	94	43	25	72.3
1911-12	55	10	...	31	96	46	31	80.2
1912-13	77	11	...	32	120	49	52	84.1
1913-14	67	32	...	18	117	39	73	95.7
1914-15	108	27	...	31	166	50	104	92.7
1915-16	117	40	...	33	190	30	143	91.0
1916-17	142	50	1	39	232	57	158	92.6
1917-18	42	30	...	25	97	19	66	87.6
1918-19	111	22	1	25	159	51	91	89.2
1919-20	307	68	...	37	412	105	293	96.6
1920-21	301	128	...	28	457	99	339	95.8

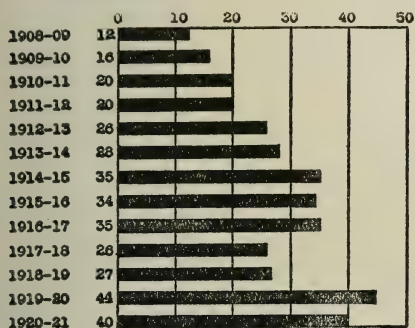
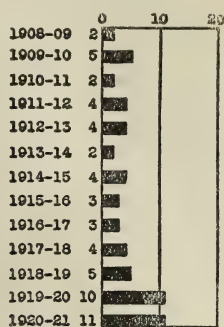
DISTRIBUTION BY COLLEGES, 1920-21

Adelbert College.....	2	Colorado State Teachers' College	1
Albion College.....	2	Columbia University.....	2
Allegheny College.....	1	Cornell College.....	4
Amherst College.....	8	Cornell University.....	4
Anatolia College.....	1	Dartmouth College.....	3
Atlanta University.....	2	Davidson College.....	2
Baker University.....	2	Denison University.....	1
Beloit College.....	4	DePauw University.....	3
Boone University (China).....	1	Doane College.....	2
Boston College.....	10	Earlham College.....	1
Boston University.....	2	Emory University.....	2
Bowdoin College.....	2	Euphrates College.....	1
Brooklyn Polytechnic Institute	1	Franklin College.....	1
Brown University.....	12	Georgetown College (Ky.).....	1
Carleton College.....	6	Government Institute of Technol-	
Carroll College.....	1	ogy (China).....	1
Carthage College.....	1	Greek Gymnasium of Kyparissia	1
Catholic University.....	5	Grinnell College.....	1
Clark College.....	2	Hamilton College.....	1
Colby College.....	2	Harvard University.....	99
Colgate University.....	3	Haverford College.....	2
College of the Pacific.....	1	Hillsdale College.....	1
Colorado College.....	2	Holy Cross College.....	8

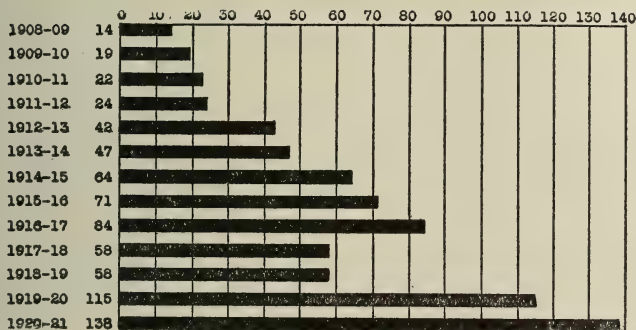
148 GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

Howard College.....	1	Trinity College.....	1
Imperial Law School of St. Petersburg.....	1	Tufts College.....	1
Indiana University.....	1	Tulane University.....	1
Johns Hopkins University.....	2	Union College.....	1
Kalamazoo College.....	1	University of Alabama.....	2
Kansas State Agricultural College.....	1	University of California.....	5
Keiogijuku University (Japan).....	1	University of Chicago.....	1
Kentucky Wesleyan University.....	1	University of Cincinnati.....	1
Knox College.....	3	University of Colorado.....	3
Lawrence College.....	3	University of Illinois.....	5
Lebanon Valley College.....	1	University of Kansas.....	9
Leland Stanford Jr. University.....	4	University of Maine.....	2
Louisiana State University.....	3	University of Michigan.....	2
Louisiana College.....	1	University of Minnesota.....	5
Lowell Textile School.....	1	University of Missouri.....	1
Marietta College.....	1	University of Oklahoma.....	2
Mass. Agricultural College.....	6	University of Oregon.....	1
Mass. Institute of Technology.....	6	University of Paris.....	1
Mt. Allison University.....	1	University of Pennsylvania.....	3
New Hampshire College.....	2	University of the Philippines.....	3
Northwestern University.....	1	University of Pittsburgh.....	1
Oberlin College.....	6	University of Rochester.....	6
Occidental College.....	1	University of Texas.....	2
Oglethorpe University.....	1	University of Utah.....	3
Ohio State University.....	1	University of Vermont.....	1
Ohio University.....	3	University of Virginia.....	1
Ohio Wesleyan University.....	3	University of Washington.....	2
Olivet College.....	1	University of Wisconsin.....	7
Peking Government University.....	1	Upsala University.....	1
Pomona College.....	2	Utah Agricultural College.....	4
Princeton University.....	5	Virginia Military Institute.....	2
Purdue University.....	1	Wabash College.....	8
Queen's University.....	5	Washburn College.....	5
Rensselaer Polytechnic Institute.....	1	Washington University, Mo.....	1
Rhode Island State College.....	1	Washington and Jefferson College.....	2
Rice Institute.....	2	West Point Military Academy.....	2
Rollins College.....	1	West Virginia University.....	1
Rose Polytechnic Institute.....	1	West Virginia Wesleyan College.....	1
Shurtleff College.....	1	William Jewell College.....	2
Southern Methodist College.....	5	Williams College.....	12
State University of Iowa.....	3	Wilmington College.....	1
St. John's College.....	1	Worcester Polytechnic Institute.....	2
St. John's University (China).....	2	Yale University.....	13
St. Mary's College.....	1	Total.....	442
St. Mary's University.....	1	Counted more than once.....	4
St. Olaf College.....	1	Total number of College Graduates.....	438
Syracuse University.....	1	Total number of Colleges represented.....	137
Texas Christian University.....	1		
Transylvania College.....	2		

DISTRIBUTION OF STUDENTS, 1908-21

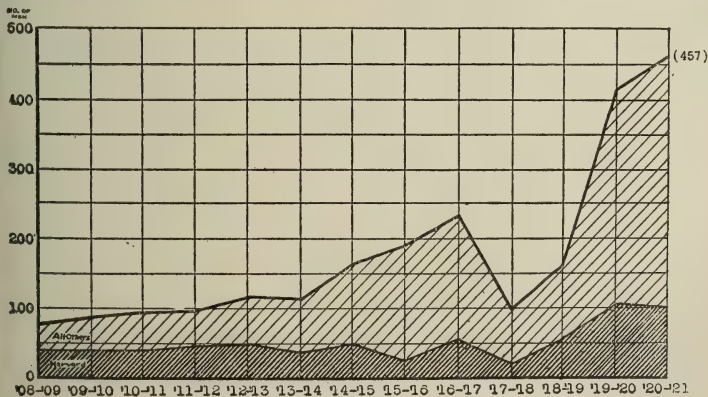
NUMBER OF STATES
REPRESENTEDFOREIGN COUNTRIES
REPRESENTED

NUMBER OF COLLEGES REPRESENTED



ENROLMENT, 1908-21

This table shows the growth in total enrolment and the large number of students coming from institutions other than Harvard. One hundred and thirty-eight colleges are represented in the School.



APPENDIX B

THE BUREAU OF BUSINESS RESEARCH

During the twelve-month period ending June 30, 1921, the following bulletins have been published:

- | | | |
|--------------|----|-------------------------------------------------------------------|
| Bulletin No. | 8. | Operating Accounts for Wholesale Grocers (revised edition). |
| " | " | 20. Operating Expenses in Retail Shoe Stores in 1919. |
| " | " | 21. Operating Expenses in Retail Hardware Stores in 1919. |
| " | " | 22. Operating Expenses in Retail Drug Stores in 1919. |
| " | " | 23. Operating Expenses in Retail Jewelry Stores in 1919. |
| " | " | 24. The Wholesale Grocery Business in January, 1921. |
| " | " | 25. Labor Terminology. |
| " | " | 26. Operating Expenses in the Wholesale Grocery Business in 1920. |

In the bulletin on Labor Terminology approximately two hundred terms in common use in labor relations are defined, the definitions being from the standpoint of members of labor unions. As a practical matter, it was necessary to work out the definitions from one point of view, and it seemed advisable to show the definite meanings attached to these terms by labor union members in order to assist employers and prospective employers to understand the labor point of view. The terms defined are for the most part such as apply broadly to numerous industries rather than those that have a narrow technical use in a single industry. This bulletin was an experiment in a large and difficult field in which further experience may indicate that it is advisable to have a large amount of additional research carried on.

During the year monthly summaries of comparative prices of cotton cloth in the United States, England, China, Japan, and India were issued to subscribers. A summary of the methods that the Bureau used was also presented to the World Cotton Conference in Manchester, England, in June, 1921. Owing to lack of funds to cover the cost of compiling the data, it was decided to discontinue issuing these reports in July, 1921. The experiment had indicated that such data were a valuable index to conditions of world trade, and it is expected that the plan developed by the Bureau will be taken over eventually by the United States Department of Commerce.

In May, 1921, the Bureau commenced the collection of reports on operating expenses in department stores. The schedule used in this investigation was drawn up in coöperation with the Standardization Committee of the Controllers' Congress and the National Retail Dry Goods Association. The procedure in studying this trade will be practically the same as that which has been followed in the Bureau's other studies of mercantile business. The costs of this investigation are to be met by a contribution from the National Retail Dry Goods Association.

During the early months of 1921 reports were collected on operating expenses in retail jewelry stores in 1920. The summary of these reports will be published in the Bureau's second annual summary on the cost of doing business in the retail jewelry trade. In addition to the summary of operating expenses, an investigation also was made of methods of merchandise classification and of the problems of departmentizing sales and expenses in retail jewelry stores. The Bureau is continuing to receive both the moral and financial support of the American National Retail Jewelers Association.

The bulletin on the Wholesale Grocery Business in January, 1921, presents the results of an investigation undertaken at the request of the trade to show the progress that was being made in the adjustment of the wholesale grocery business to the new conditions brought about by general industrial depression. In the bulletin on Operating Expenses in the Wholesale Grocery Business in 1920, reports from 322 wholesale grocers were summarized. These firms were located in forty-five states and Canada, and their aggregate sales in 1920 were \$643,900,000. Reports from forty other wholesale grocers were received that were not included in the tabulations because they were not strictly comparable. If they had been included, the aggregate volume of sales would have been \$729,798,000. This probably represents something like 10 per cent of the wholesale grocery firms in the United States and at least 25-30 per cent of the total volume of business done in the wholesale grocery trade in the country. In this bulletin separate tabulations were made for each of the Federal Reserve districts in order to reveal differences in local conditions. This year it has been possible to present a table showing in detail operating expenses, gross and net profits, and stock-turn for forty-three identical firms during the last five years, thus indicating the manner in which their operating expenses and profits were affected by radical changes in business conditions. The expense of carrying on these

investigations in the wholesale grocery trade was met through funds donated by the National Wholesale Grocers' Association, the association having also given active assistance in urging their members to coöperate with the Bureau.

These studies of operating expenses in mercantile business continue to be of immediate practical interest to many members of the respective trades. A series of annual reports is being collected, furthermore, that will aid materially in understanding the business history of the last few years, a period to which reference will often be made in the future. From this standpoint the value of these records becomes greater and greater as the series grows and eventually they also should be of real assistance in studying the business cycle. In keeping up these investigations from year to year, moreover, the Bureau incidentally receives numerous questions and statements of problems that can be utilized immediately for teaching purposes in the Business School. Such material, when it comes in in problem form, is turned over to the instructor, and when an instructor needs data to cover a special type of problem, frequently the necessary information is found available in the Bureau's files. This holds true especially for Retail Store Management and for a portion of the field of Marketing.

In December, 1920, the collection of labor problems was undertaken. Although the work made slow progress during the first few months, the technique of carrying on such research was developed to a point that seemed to justify further expansion, and in June, 1921, a staff of twelve agents with the necessary clerical assistance was put to work collecting teaching problems in Banking, Industrial Management, Labor, Retail Store Management, and Sales Management. The chief features of the development of this work have been covered in the main body of this report.

APPENDIX C

List of Outside Lecturers who assisted in various courses during the year 1920-21.

INDUSTRIAL FINANCE

J. O. McKinsey of New York: "Financial Budget."

BUSINESS POLICY

Robert Amory of Boston: "A Problem in the Purchase of Raw Cotton."

Morris A. Black of Cleveland: "A Problem in Control of Styles in Women's Garments."

Richard B. Carter of Cambridge: "A Problem in Distribution of Inks and Adhesives."

Howard Coonley of Boston: "A Problem in the Location of a Plant."

H. S. Dennison of Framingham: "A Problem in Business Organization."

Paul E. Fitzpatrick of Boston: "A Problem in Marketing of Hosiery."

George L. Graham of Boston: "Relations between Industry and Transportation."

Charles H. Jones of Boston: "A Problem Connected with the Manufacture and Sale of Shoes."

Henry P. Kendall of Boston: "Proposed Reorganization of a Small Industrial Corporation."

John S. Lawrence of Boston: "A Problem in the Marketing of Hosiery."

Selden O. Martin of New York: "A Problem in the Marketing of Tea."

Herbert W. Mason of Boston: "A Problem in Marketing of Pulp."

W. B. Medlicott of Boston: "A Problem in Fire Insurance."

E. G. Preston of Boston: "Exclusive Selling Agencies."

W. L. Shaw of Manchester, N. H.: "A Labor Problem in the Shoe Industry."

Thomas W. Slocum of New York: "A Problem in Manufacture of Cotton Goods."

Carl Snyder of New York: "A Problem in Money and Prices."

H. A. Stone of Boston: "Financing and Marketing a Gum Tape Machine."

A. M. Wright of Boston: "A Distribution Problem in the Piano Industry."

L. M. Wright of Boston: "A Distribution Problem in the Piano Industry."

FOREIGN TRADE

Frank A. Arnold of New York: "Foreign Advertising."

W. P. F. Ayer of Boston: "A Problem in Foreign Trade."

E. A. Filsinger of New York: "Marketing Textiles in South America."

Donald Frothingham of New York: "A Problem in Exporting to Latin America."

R. S. MacElwee of Washington: "Service Organization in Foreign Selling."

W. S. Tower of New York: "Warehouse Location for Steel Export Firm."

"The Problem of Cancellation of Orders in Argentina."

LATIN AMERICAN TRADE

E. B. Filsinger of Boston: "The Trade Situation in Latin America."

OCEAN TRANSPORTATION

- F. F. Farrar of Boston: "The Export Agent of a Railroad and His Services to the Exporter."
 M. H. Gurney of Boston: "The Work of a Foreign Freight Broker."
 J. W. McLachlan of Boston: "The Freight Dept. of a S. S. Company."

FACTORY PROBLEMS AND THE TAYLOR SYSTEM

- L. H. Ballou of Walpole: "Distribution of Indirect Expense."
 Carl G. Barth of Philadelphia: "Stores. Cost."
 J. C. Barth of Philadelphia: "Barth Slides, Rules, and Standardization and Maintenance Necessary to their Effective Use."
 N. G. Burleigh of Dartmouth College: "History of Development of Scientific Management at Winchester Repeating Arms Co."
 Theo. Clark: "Coördination of Sales and Production."
 Theo. Clark of Bangor, Maine: "Standardization of the Work of the Maintenance Department."
 Wallace Clark of New York: "Gantt Methods."
 F. G. Coburn of Scituate: "Difficulties in Developing Scientific Management."
 G. F. Covert of Rochester: "Sales Engineering."
 H. S. Person of New York: "Control."
 E. H. Schell of Technology: "Emerson Methods."
 H. L. Smith of New Haven: "Functional Organization of Winchester Repeating Arms Company."
 D. J. Walsh of Boston: "Order of Work."

LABOR TECHNIQUE

- Daniel Bloomfield of Boston: "Labor Relations in the Shipbuilding Industry."
 C. C. Burlingame of South Manchester, Conn.: "Service Work for Employees."
 Boyd Fisher of Boston: "The Past, Present and Future of Labor Management."
 Gorton James of Boston: "Employee's Pensions."
 Robert List of Boston: "Hiring Problems of Mercantile Establishments."
 Frank M. Marsh of Boston: "The Labor Manager's Qualifications and Duties."
 Franklyn Meine of Framingham: "Transfers and Promotions."
 Ben D. Rogers of East Walpole: "Hiring the Working Force."
 Ordway Tead of New York: "Arousing the Worker's Interest in His Work."
 Ralph G. Wells of Boston: "The Labor Audit." "Foremen's Training Courses."

LABOR PROBLEMS

- K. M. Bradley of Lynn: "The Operation of the Shop Representation Plan at the Lynn Works of the General Electric Company."
 Ordway Tead of New York: "The Labor Audit." "Job Analysis."

MARKETING

- Robert Amory of Boston: "Problem of a Textile Mill."
 Howard Coonley of South Boston: "Sales Promotion Problem."
 Harry R. Wellman of Dartmouth College: "The Problem of the Mail Order Business."

RETAIL STORE MANAGEMENT

- Corlos B. Clark of Detroit: "The Retail Method of Accounting."
 George E. Cole of Cambridge: "Stock Shortages."
 D. E. Moeser of Boston: "Merchandise Control."
 M. W. Osgood of Boston: "An Organization Problem."
 Philip Reilley of New York: "Personnel Problems in Department Stores."
 Harold Young of Washington: "Taxation and Legislation regarding Retail Stores."

ADVERTISING

- Frank A. Black of Boston: "Retail Advertising."
 C. C. Eaton of Cambridge: "The Advertising and Publicity of the General Electric Co."
 L. F. Hamilton of South Boston: "Coördination of Personal Salesmanship and Advertising."
 J. J. Morgan of Boston: "Advertising Campaign Problem."

SALES MANAGEMENT

- Charles F. Abbott of New York: "Sales Research."
 W. W. Duncan of Watertown: "Problems in Sales Organization."
 W. P. Jackson of Watertown: "Problems in Development of Sales Organization."
 William Maxwell of New Jersey: "Training of Salesmen."
 J. P. H. Perry of New York: "Problems in Marketing of Concrete Buildings."
 H. S. Person of New York: "Sales Engineering."

THESIS AND RESEARCH

- T. J. D. Fuller of Boston: "The Export Commission House: Its Opportunities for the Young Man entering Foreign Trade."
 E. W. Hulet of Cleveland: "Coördination of Sales and Production."
 J. O. McKinsey of New York: "Budget Accounting."
 J. E. Masters of Boston: "The Accounting Profession."
 Thomas H. White of Cleveland: "Coördination of Sales and Production."

RAILROAD OPERATION

- G. M. Basford of New York: "Economics through Installation of Modern Devices on Locomotives."

TRAFFIC MANAGEMENT

- J. H. Butler of New York: "Loss and Damage Claims — Express Service."
 W. H. Chandler of Boston: "The Traffic Bureau of a Chamber of Commerce."
 Benjamin F. Curtis of Worcester: "Industrial Traffic Management."
 George H. Eaton of Boston: "The Ten Class Rate Scale."
 J. D. Hashagen of Boston: "Functions of the Industrial Traffic Management."
 "Ocean Transportation."
 J. H. Hustis, Jr., of New York: "Freight Claim Prevention."
 Wilbur L. LaRoe of Boston: "Preparation of Rate Cases for the Interstate Commerce Commission."
 L. A. Norman of Boston: "The Bill of Lading."
 Edgar J. Rich of Boston: "Principles Underlying Rate Making."
 J. Eliot Slater of New Haven: "The Boston Switching Rate Case."
 Charles H. Tiffany of Boston: "The Differential Rate Structure."

INCOME TAXATION

Henry N. Andrews of Boston: "Duties of Fiduciaries."

Henry H. Bond of Boston: "Appeals at Washington." "Relief Provisions."

Ripley L. Dana of Boston: "Reorganizations."

Clement R. Lamson of Boston: "Invested Capital."

FACTORY MANAGEMENT AND SHOP ACCOUNTING PRACTICE

J. P. Jordan of New York: "Graphic Production Control."

Louis F. Musil of New York: "Budget Practice."

INDUSTRIAL MANAGEMENT

Arthur H. Carver of Chicago: "Industrial Relations."

W. H. Ham of Connecticut: "Housing."

F. C. Hood of Watertown: "Labor."

Arthur D. Little of Cambridge: "Research."

Dr. Wade Wright of Boston: "Industrial Medicine."

THE SCHOOL OF ARCHITECTURE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit a report on the School of Architecture for the academic year 1920–21.

The registration was as follows:

Travelling Fellows in Europe.....	4
Regular students.....	31
Special students.....	7

This shows a gain of eight regular students and a loss of five special students as compared with the year 1919–20.

Besides the graduate students, 28 different undergraduates took those of our courses which are open to them, and their total registration was 52.

The unusual number of Travelling Fellows in Europe is due to the fact that men who had won fellowships earlier were not able to take advantage of them during the troubled period of the War and for some time thereafter.

The regular students were graduates of the following colleges and technical schools:

Dartmouth College.....	1
Harvard University.....	20
Louisville, University of.....	1
Minnesota, University of.....	2
Occidental College.....	1
Princeton University.....	1
Ripon College.....	1
Texas, University of.....	1
Wisconsin, University of.....	1
Yale College.....	2

The enrolment of students in the several courses was as follows:

Arch. 1a. Undergraduates.....	14	Arch. 2c. Undergraduates.....	6
Graduates.....	6	Graduates.....	13
Arch. 1b. Undergraduates.....	5	Arch. 3a. Undergraduates.....	4
Graduates.....	12	Graduates.....	15
Arch. 1c. Undergraduates.....	12	Arch. 3b. ".....	4
Graduates.....	13	Arch. 3c ¹ . ".....	13
Arch. 2b. Undergraduates.....	6	Arch. 3c ² . ".....	20
Graduates.....	3	Arch. 3d ¹ . ".....	17

Arch. 3d ² . Graduates.....	9	Arch. 5a. Graduates.....	11
Arch. 3e ¹ . ".....	19	Arch. 5b. ".....	16
Arch. 3e ² . ".....	24	Arch. 5c. ".....	10
Arch. 3f ¹ . ".....	13	Arch. 6a. ".....	15
Arch. 3f ² . ".....	6	Arch. 6b. ".....	12
Arch. 4a. Undergraduates.....	5	Arch. 6c. ".....	8
Graduates.....	8	Arch. 9. ".....	22
Arch. 4b. ".....	18	Arch. 10. ".....	20
Arch. 4c. ".....	10		
Construction Problems			25
Historic Problems			27

The enrolment of students in the Summer School courses in Architectural Design in 1921 was as follows:

S4a.....	9
S4b.....	11
S4c.....	9
	—
Total.....	29

The degree of Master in Architecture was granted in June, 1921, to:

FREDERICK STILLMAN KINGSBURY, S.B. 1914. (*Thesis*, "An Island Estate.")

WILLIAM GEORGE O'TOOLE, S.B. (*Univ. of Louisville*) 1918. (*Thesis*, "A Stock Exchange.")

KENNETH KINGSLEY STOWELL, S.B. (*Dartmouth Coll.*) 1916. (*Thesis*, "A Club House.")

Mr. Kingsbury also finished his work for the degree of Master in Landscape Architecture at the same time, the two staffs co-operating in criticism of his thesis which combined architectural and landscape design.

The following fellowships and prizes were awarded:

The Julia Amory Appleton Travelling Fellowship to William George O'Toole, S.B. (University of Louisville) 1918.

The medal of the American Institute of Architects, for best work throughout his whole course, to William George O'Toole, S.B. (University of Louisville) 1918.

The prize of the Boston Society of Architects for a competition in design for regular students, to Lansing Colton Holden, Jr., A.B. (Princeton University) 1920; and for special students, to Lawrence Anthony Kruse.

The scholarships for special students (won by a competition in design) to William Stephen Boice, Edwin Burger Olsen, and Emil Arvo Lehti.

The increase in expenses of travelling in Europe, caused by the War, has made it necessary for us to reduce the time required of

our travelling fellows from twenty-four months to eighteen months. This action was regretted, but it did not seem feasible to increase the stipends enough to support the fellows for the full two years.

The accessions to the Library during the year and the totals at the end of the year were as follows:

	Accessions	Totals
Books, bound periodicals, and bound pamphlets . . .	140	2,705
Unbound pamphlets	9	218
Lantern slides	61	9,646
Photographs	87	19,770

Mrs. Robert S. Peabody, widow of the well-known Boston architect and Overseer of the University, presented the School with Ongania's "Basilica of S. Mark, Venice" — a very complete and beautiful collection of illustrations of this cathedral.

The Summer School courses in Architectural Design continue to prove valuable as giving our own students opportunity to hasten their progress through the School, and also as giving opportunities in advanced design for instructors as well as students from other schools.

Joint problems in design for our School, the Department of Architecture at the Massachusetts Institute of Technology, and the Boston Architectural Club have continued throughout the year. These problems have served to stimulate the interest of all the students taking part, and have given them means of comparing their work with that of students of other schools on the same problems. The problems have been judged by a common jury of representatives from the three staffs and the discussions at the judgments have been of great value to the instructors themselves.

At the request of Dean Holmes of the Graduate School of Education, our students took for one of their problems in design a proposed building for that School. For another problem they studied a scheme for possible dormitories for the University. In neither of these cases were the students expected to produce completely developed designs which would furnish an accurate basis for estimating costs, nor did they take the place of the work which the architect will have to do later, but they did perhaps help the "client" to better formulate his own ideas, and they certainly added a reality to the problems which inspired our students. Recognizing the limitations, therefore, we should be glad to offer our students other opportunities of the same kind whenever the building problem is one which is fitted to their capacity.

During the summer the Library of the School of Architecture was greatly increased in capacity by changes and additions in the cases, made possible by the generous gift of Mr. Nelson Robinson.

During the year, the Chairman of the School was appointed to represent the American Institute of Architecture in coöperation with the Committee appointed by Herbert Hoover, Secretary of Commerce, to investigate certain phases of the building industry in the hopes of obtaining greater economy. The members of the main Committee included Joseph R. Worcester, A.B. 1882, engineer, of Boston, and Edwin H. Brown, A.B. 1896, architect, of Minneapolis.

CHARLES W. KILLAM, *Chairman.*

THE SCHOOL OF LANDSCAPE ARCHITECTURE

TO THE PRESIDENT OF THE UNIVERSITY:

SIR, — As Chairman of the School of Landscape Architecture, I have the honor to submit the following report for the academic year 1920-21.

Besides four travelling fellows, our registrations numbered twenty-eight resident students, of whom twenty-six were regular students (candidates for our degree) and two were special students. This total of thirty-two * professional students had never been exceeded, and had been equalled only in 1913-14 and 1919-20. Deducting the two specials admitted without degrees, the remaining thirty men, though more held degrees from Harvard College than in any previous year, held degrees from as many as twenty-two different institutions (five of these institutions appearing in our list for the first time), as follows:

Baldwin-Wallace College.....	1
Bucknell University.....	1
Cornell University.....	1
Dartmouth College.....	1
Grinnell College.....	1
Harvard University.....	11
Iowa State College.....	1
Kansas State Agricultural College.....	1
Lafayette College.....	1
Lehigh University.....	1
Massachusetts Agricultural College.....	2
Oberlin College.....	1
Ohio State University.....	1
Pennsylvania State College.....	1
Syracuse University.....	1
University of California.....	1
University of Maine.....	1
University of Michigan.....	1
University of Wisconsin.....	1
Western Reserve University (Adelbert College).....	1
Williams College.....	1
Yale University.....	1
<hr/>	
Total.....	33
Names counted more than once.....	3

* These figures differ from those in the University Catalogue of Names for 1920-21, which omit four students entering later in the year.

Four were receiving aid from the Federal Board for Vocational Education. Seven were already graduates of courses in Landscape Architecture, and four were graduate engineers who for some years had been practising that profession. As usual, considerably more than half had already had practical experience in the profession, some in independent practice.

The enrolments in courses were as follows:

Land. Arch. 1.	Graduates.....	12	
	Undergraduates*.....	8	20
Land. Arch. 2.	Graduates.....	15	
Land. Arch. 3.	".....	14	
Land. Arch. 4.	".....	13	
Land. Arch. 5.	".....	8	
Land. Arch. 6.	".....	7	
Land. Arch. 7.	".....	10	
Land. Arch. 8.	".....	7	
Land. Arch. 9.	".....	7	
Land. Arch. 10.	".....	17	
Land. Arch. 11.	".....	13	
Land. Arch. 12.	".....	2	
	Undergraduates†.....	1	3
Land. Arch. 13.	Graduates.....	9	
Land. Arch. 14.	".....	7	
Land. Arch. 15.	".....	10	
Land. Arch. 16.	".....	6	
Land. Arch. 20.	(not given).		

The only noteworthy change from the previous year in this list of courses is the appearance, for the first time as such, of Course 13, previously known as Architecture 2a, though given solely for students of Landscape Architecture, and of Courses 14, 15, and 16, which cover the first, second, and third years of freehand drawing.

Early in October, 1920, Raymond Hill Wilcox, S.B., M.L.A., of Detroit, Michigan, Charles Eliot Travelling Fellow for 1916-17, the exercise of whose fellowship had been postponed till February, 1920, returned to this country, and has since filed with the School an interesting thesis embodying many of the more important results of his studies of Formal Gardens, in Italy, France, and England, as our first Charles Eliot Fellow. On January 4, Raymond White Blanchard, A.B., M.L.A., of Somerville, Massachusetts, Charles Eliot Fellow for the year 1920-21, sailed for Europe to study Public Parks in France, Italy, Austria, Germany, Holland, Belgium, and England. He has now returned to France, where he

* Course 1, as previously, was open to Seniors and Juniors in Harvard College.

† Course 12 is a summer course open without special preparation to undergraduates.

is preparing his thesis, being at the same time employed by the American Graves Registration Service of the United States War Department, developing working drawings for the execution of designs which have been prepared under the direction of Major George Gibbs, Jr., one of our earlier graduates, for the American Cemeteries in France and England. About the first of March, Elbert Peets, A.B., M.L.A., of Cleveland, Ohio, Charles Eliot Fellow for 1917-18, continued till 1920-21, returned after about ten months' study of the Relation of Monumental Buildings to the City Plan in the more important cities of western Europe. On June 25, Arthur Hadden Alexander, S.B., M.L.A., of Wellesley, Massachusetts, Sheldon Travelling Fellow in Landscape Architecture for 1920-21, arrived back in New York after eleven months' study of the Small Home Lot and Garden in France, Italy, and especially England. Mr. Alexander's and Mr. Peets's theses on their respective subjects had not been completed at the end of the year under review. The competition for the Charles Eliot Fellowship for 1921-22 was held in July, 1921, and was won by William Richard Sears, S.B. (Mass. Agric. Coll.) 1915, M.L.A. (Harvard Univ.) 1920, of Woburn, Massachusetts.

The Degree of Master in Landscape Architecture was granted at Commencement to eight men, the largest number in any one year thus far, as follows:

TRACY BALDWIN AUGUR, A.B. (*Cornell Univ.*) 1917, of Brooklyn, N. Y. (*Graduating Thesis in Design*, "An Industrial Subdivision for Medium-Cost Residences at North Andover, Mass."; *Research Thesis in City Planning*, "Garden Cities for America, a Logical Step in Industrial and Urban Progress.")

HARVEY HIRAM CORNELL, S.B. (*Iowa State Coll.*) 1916, of Los Angeles, Cal. (*Graduating Thesis in Design*, "A Recreation Park in Cambridge, Mass."; *Research Thesis in City Planning*, "The Park System in Relation to the City Plan.")

PRENTISS FRENCH, A.B. (*Williams Coll.*) 1917, of Williamstown, Mass. (*Graduating Thesis in Design*, "A Memorial Community Center in Somerville, Mass."; *Research Thesis in City Planning*, "Building Lines.")

KENNETH ALEXANDER GARDNER, A.B. (*Harvard Coll.*) 1916, of Somerville, Mass. (*Graduating Thesis in Design*, "A Country Estate in Topsfield, Mass."; *Research Thesis in City Planning*, "Zoning.")

GEORGE FRENCH INGALLS, A.B. (*Dartmouth Coll.*) 1915, of Waukegan, Ill. (*Graduating Thesis in Design*, "The Reorganization of a Seashore Estate in Cohasset, Mass."; *Research Thesis in City Planning*, "City Approaches.")

FREDERICK STILLMAN KINGSBURY, S.B. (*Harvard Coll.*) 1914, of Needham, Mass. (*Graduating Thesis in Design*, "A Palatial Island Estate in Bermuda" — part of a two-fold conjunctive thesis for both this degree and the degree of Master in Architecture; *Research Thesis in City Planning*, "The Metropolitan Plan.")

GUY HUNTER LEE, A.B. (*Harvard Coll.*) 1916, of Chestnut Hill, Mass. (*Graduating Thesis in Design*, "A Small Suburban Place in Newton, Mass."; *Research Thesis in City Planning*, "The Preservation of the Individuality of Cities.")

JOSEPH FRADLEY WHITNEY, S.B. (*Mass. Agricultural Coll.*) 1917, of Westminister, Mass. (*Graduating Thesis in Design*, "An Industrial Subdivision for Low-Cost Residences at Chestnut Hill, Mass."; *Research Thesis in City Planning*, "City Boundaries.")

Including the above eight, fifty-one awards of the M.L.A. Degree have now been made.

In June, 1921, Assistant Professor Henry Vincent Hubbard, whose second five-year term as Assistant Professor was about to expire, was appointed Professor of Landscape Architecture from September 1, 1921; and, during the year covered by this report, Mr. Harold Broadfield Warren, who had for some years taught freehand drawing to our students of Landscape Architecture, was formally attached to our staff while still retaining his position in the School of Architecture, and Mr. Kenneth John Conant, Instructor in the School of Architecture, became also Instructor in Architectural Design in our School of Landscape Architecture. The members of the Council of the School for the year 1920-21 were as follows:

JAMES STURGIS PRAY, A.B., Charles Eliot Professor of Landscape Architecture, and Chairman of the Council of the School of Landscape Architecture.

HENRY VINCENT HUBBARD, A.M., S.B., Assistant Professor of Landscape Architecture.

BREMER WHIDDEN POND, S.B., M.L.A., Instructor in Landscape Architecture.

STEPHEN FRANCIS HAMBLIN, S.B., Instructor in Horticulture.

HAROLD BROADFIELD WARREN, Instructor in Freehand Drawing.

KENNETH JOHN CONANT, A.B., M.Arch., Instructor in Architectural Design.

of whom all were in residence throughout the academic year.

Among the speakers outside the School's staff at our afternoon "round-tables" and before evening meetings of the Topiarian Club were Mr. Guy H. Lee of the graduating class on "The Harvard Unit in France"; Mr. Percival Gallagher, F.A.S.L.A., of

Olmsted Brothers, Landscape Architects, on "The Origins of the Boston Park System"; Dr. John Nolen, F.A.S.L.A., on "Control of the City's Fringe"; Mr. Charles F. Cheney, Town Planning Adviser to the City of Portland, Oregon, on "The Planning and Zoning of Portland, Oregon"; Mr. Alling S. DeForest, F.A.S.L.A., former Secretary of the American Society of Landscape Architects, on "Problems in Estate and Park Design" illustrated by special slides from direct color photographs; and Mr. Joseph Lee, President of the Playground Association of America, on "Playgrounds."

The Annual Trophy Competition, open as usual to all students in the School taking courses in Landscape Design, was held in January, and was won by Tracy Baldwin Augur, A.B., of Brooklyn, New York, a second-year student. In the spring, the "Home Beautiful" Exposition in Boston offered three prizes for the best design of "Suburban Home Grounds." There were in all about thirty contestants representing several schools or departments of Landscape Architecture throughout the country and certain firms of landscape architects, and the Jury consisted of three members of the American Society of Landscape Architects. The first prize, \$100, was awarded to Malcolm Howard Dill, a first-year student in our School; the second, \$50, to Tracy Baldwin Augur, a second-year student; the third, \$20, to Hale Junius Walker, who graduated from our School in 1920; and an Honorable Mention was given to Charles William Eliot, 2d, a first-year student. About the same time, a competition was offered by the Women's National Farm and Garden Association in Chicago for the best design of "A Formal Garden for an Invalid"; and the first prize was won, also, by Hale Junius Walker, M.L.A. 1920.

Among the many interesting exhibitions held at the School during the year were an exhibition of Survey Plans for Flint, Michigan, lent by Dr. John Nolen, Landscape Architect, and a special traveling exhibition, prepared by the writer for the organization, La Renaissance des Cités, of illustrations of the devastated regions in France and of projects for rebuilding certain of the destroyed communities. Outside the School, the work of our students was exhibited in October, at the annual convention of the American Civic Association, held this year in Amherst, Massachusetts, and devoted to rural and regional planning; and, in February, at the Art Institute in Chicago, and at the joint exhibition in Boston of the Boston Society of Architects, the Boston Society of Landscape Architects, and the Boston Architectural Club.

In the course of the year, a further honor was bestowed upon our already distinguished Librarian, Miss Theodora Kimball, by her election to Associate Membership in the Town Planning Institute of Great Britain. Miss Kimball is the only woman thus far to receive this signal recognition.

The year was one of uniquely important gifts to the Library, including the greater part of the professional library of Charles Eliot, Landscape Architect, given by Mrs. Charles Eliot; the Charles Mulford Robinson Memorial City-Planning Library, comprising Mr. Robinson's entire professional collections, given by Mrs. Robinson; and a very interesting collection of plans prepared, in the course of his professional practice, by Nathan Franklin Barrett, one of the comparatively early landscape architects in this country, who was at one time President of the American Society of Landscape Architects. The deposit, by the American Society of Landscape Architects, of current plans and reports has continued and in larger volume than in any previous year. Thus our Library has been further greatly strengthened as a center of research in the field of Landscape Architecture, and especially in City Planning. From Mr. Nelson Robinson, to whom the School was so greatly indebted already, came, moreover, the further most timely gift of a gallery for the Library, in which, as soon as it can be built, will be placed the above mentioned memorial collections. The year's accessions to our various collections, and the totals of these collections at the end of the year, *not including anything from the Charles Mulford Robinson collections*, were as follows:

	Accessions	Totals
Books and continuations	414	2,901
Pamphlets	792	3,342
Maps and plans, including those deposited indefinitely by the American Society of Landscape Architects, approx	525	4,000
Photographs, approx	218	4,700
Postcards, approx	150	14,000
Lantern slides	184	4,644
Models	0	5

As usual, a considerable number of selected bibliographies and publications were issued, among them being "Municipal Accomplishment in City Planning and Published City Plan Reports in the United States," edited by T. Kimball and published under the auspices of the National Conference on City Planning; and the annual "Review of City Planning in the United States," prepared by T. Kimball for "The National Municipal Review" and sub-

sequently reprinted. The writer also published, in "Parks and Recreation," "Railroad Grounds, a Study of their Design, Planting, and Relation to the Community"; and, in "Landscape Architecture," a "Minute on the Life and Service of Charles Pierpont Punchard, Jr." (the Landscape Engineer to the National Parks, and a former student in our School).

On the evening of April 5, the Boston Society of Landscape Architects held its monthly meeting at Robinson Hall, the writer speaking on "The Present Status of Professional Instruction in Landscape Architecture in this Country"; other members giving illustrated talks on actual problems in their professional practice; and the meeting being open to all members of our School. On June 25, 26, and 27, the National Conference on Instruction in Landscape Architecture held its second meeting at Harvard by invitation of our School, and the writer was re-elected Chairman for this meeting and for the ensuing year. As before, the Standing Committee on Education of the American Society of Landscape Architects met with the Conference, which included representatives from institutions all over the country. Reports of many of the committees were of exceptional value in furthering the development of instruction in Landscape Architecture along desirable lines.

Several of our students participated, during the summer and fall, in the work of the American Students' Reconstruction Association (which replaced the Harvard Reconstruction Unit of the year previous) in the devastated regions of France, and one of them, who had had some city planning and was in demand, therefore, as an *urbaniste*, was called on to work out the details of the new plan for Verdun, especially for those areas occupied by the old walls and moats which in places are to be completely demolished in order to provide areas for the homes, factories, and playgrounds of those who will be deprived of land in the town's midst by street-widening and the creation of new squares.

During August and September the writer, under the special auspices of the National Park Service and the National Forest Service, made a rapid professional reconnaissance of eight of the National Parks, various of the National Monuments, and many of the National Forests. He also visited the municipal parks of Seattle, Tacoma, Portland, San Francisco, Los Angeles, Denver, and other western cities. One result of this trip was the collection of much valuable material for the School Library.

A specially noteworthy event, which we anticipate will prove of increasing importance to the further development of our instruction and of our resources has been the creation, by the Board of Overseers, of a separate Visiting Committee to the School of Landscape Architecture, and the appointment to that committee of men distinguished in the practice of Landscape Architecture, City Planning, Architecture, or Engineering; and of men of affairs interested in the aims of our School.

Among our special immediate needs are, first, an appropriation of two hundred fifty dollars (\$250) to cover honorariums to outside lecturers; second, a fund, of which the income can be devoted to the publication each year of one or more of the research theses now developed in the School, especially within the field of City Planning, these to appear in a series of "Harvard Studies" corresponding to similar series in certain other departments of the University. The School already has in its files more than fifty such theses, many of which, if they could be made generally available through publication in this way, would be of value commensurate with the value of those issued by other Departments and would also tend distinctly to increase resort to the School. A second travelling fellowship, one available for use either in this country or abroad, would also be of great value. Finally, even with our present endowment, so liberal in certain respects, we still need a greater income for salaries and enlargement of staff; for equipment; and for current expenses attendant upon the efficient running of the School and the taking advantage of its ever widening opportunity for service.

JAMES STURGIS PRAY, *Chairman.*

THE GRADUATE SCHOOL OF EDUCATION

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present the first report on the Graduate School of Education, covering the academic year 1920–21.

The School was established by vote of the Corporation, April 12, 1920, and began its work the following September. Instruction in Education had been regularly offered at Harvard since 1891, when Paul Henry Hanus was appointed Assistant Professor of the History and Art of Teaching. The courses given by Professor Hanus were listed at first as courses in Philosophy and it was more than a year before they were all accepted for degrees. They made a place for themselves, however, and grew gradually in academic favor, until in 1906 the instructors in Education — there were then two — were constituted a Division of the Faculty of Arts and Sciences. From time to time the staff of the Division was increased by additional appointments and the range of its instruction extended; and it finally became in effect a professional school. Meanwhile, instruction in Education had been developing rapidly in other institutions and had been for the most part organized under professional faculties, offering chiefly undergraduate degrees, but in many cases graduate degrees as well. In the schools, also, standards of professional preparation had been notably advanced. The time seemed ripe, therefore, to establish at Harvard a distinct professional faculty in Education, of graduate grade.

The first proposal for such an organization had been made by Professor Hanus as early as 1903. It was not until 1915, however, that the staff of the Division of Education, together with the Overseers' Committee for the Division, began, with the approval of the Corporation, a serious and united effort to secure the endowment necessary for a new professional school. That effort resulted in a fund of two million dollars, an initial capital sufficient to justify the establishment of the School, but not, as had at first been hoped, sufficient to provide a building.

Towards the achievement of this result the first and most important step was made when the General Education Board pledged the sum of \$500,000, provided the remaining \$1,500,000 should

be secured from other sources. The Corporation had the consent of the Board to count toward this remainder half a million dollars out of the funds already in its possession, from the income of which it was then defraying the costs of the Division of Education. One million dollars was thus contingently in hand by September, 1919. The Corporation and the Board both welcomed heartily the suggestion that the Fund, when completed, should bear the name of Charles William Eliot, President Emeritus of the University and a member of the Board from 1908 to 1917. In voting to contribute to the Fund the Board was moved by the desire to give special recognition to the services rendered to the schools of the country by Professor Hanus.

It now became the object of the Division and the Committee to secure the remaining million. A special campaign was organized and approximately \$200,000 had been pledged, when the Harvard Endowment Fund proposed that the separate campaign for the School should be abandoned and its object achieved as a part of the general aim of the Fund. This proposal was of course most welcome. The members of the Division put their whole effort thereafter into the Harvard Endowment Fund campaign, and by the terms of the agreement the endowment of the Graduate School of Education was assured when the Fund passed the \$11,000,000 mark.

In the arduous labor of developing plans for the School and securing an endowment for it, the Overseers' Committee for the Division took an indispensable and leading part. It was to be expected, of course, that those most vitally concerned with the success of the undertaking — the President and Fellows and the staff of the Division — would give to it the necessary effort and attention; but it was the active support of the Committee which first brought success within the range of possibility. The whole Committee attended repeated meetings and devoted itself to considering the special problems which came up in the progress of the campaign; and several members were able to contribute largely to the endowment fund.

In this first report, the School records its gratitude especially to James J. Storrow, for unfailing service on the Committee over a long period of years, for invaluable counsel, assistance, and encouragement in times of greatest need, and for his gift to the Charles William Eliot Fund; to Jerome D. Greene for his leadership, as Chairman of the Committee throughout the period of active work for the establishment of the School, and for personal

effort, advice, and support at every turn; and to Felix M. Warburg for his gift to the Fund and for an interest, enthusiasm, and well-directed energy which carried the enterprise through some of its most discouraging difficulties.

The School developed out of the Division, and the work of the Division owed more to Joseph Lee than to any other benefactor; he made possible several expansions of its instruction and gave to its members constant inspiration; and in this he was joined always by Margaret Cabot Lee, his wife, to whom during her lifetime the Division was many times indebted for special opportunities it could not otherwise have secured. The Division owed much also to John F. Moors, who served as Chairman of the Committee through the earlier stages of the campaign for the School, encouraged that campaign when he became a Fellow of the College, and gave generously to the Charles William Eliot Fund. The work of the year 1919-20, preparatory to the first year of the School, was greatly helped by a gift from Frank A. Vanderlip and other members of the Committee; the progress of the Bureau of Vocational Guidance, as an organization first of the Division and later of the School, was made possible by the gifts and the vision and leadership of A. Lincoln Filene; to the gift of Charles W. Hubbard, made in 1917, the Division owed its first advance toward an endowment; and to Mr. and Mrs. Robert Saltonstall on many occasions and to John T. Pratt during the campaign for the endowment both the Division and the School have been indebted for generous aid. These are but the barest statements of the obligation which this department of the University feels toward persons who have been its most conspicuous benefactors.

During the year 1920-21 the organization and work of a Psycho-Educational Clinic, under the direction of Professor W. F. Dearborn, was made possible by the gifts of Mrs. E. H. Harriman, since 1920 a member of the Overseers' Committee for the School. It was her wish to help the School at the beginning in a kind of work she has aided in other places, and to make possible a new undertaking rather than to give to general endowment.

The first year of actual work under the new organization was necessarily a year of adjustment. It was impossible to expand in any notable way the work already done by the Division, for during this first year, and indeed up to the moment of this writing, the School has been obliged to operate on the income from only half of its endowment. This has been unfortunate; but the Corporation could not assign to the use of the School its final instalment

from the Harvard Endowment Fund until a considerable part of that Fund had actually been paid in. In an academic enterprise it may be well, to be sure, that growth should be slow, if thereby it may be rendered sounder; but the delay in the completion of the endowment has the consequence that the School must wipe out a deficit, accumulated in its first year, before it can consider expenditures for expansion.

At the outset, however, certain additions to the Faculty were made and the beginnings of certain new work were undertaken. From the rank of Assistant Professor under the Division, Alexander James Inglis was made Professor, and George Ellsworth Johnson and John Marks Brewer, Associate Professors. Edwin Adams Shaw was added to the Faculty as Assistant Professor, and Leslie Olin Cummings and Bancroft Beatley as Instructors. The list of Lecturers was extended by the following appointments: Walter Elmore Fernald (Mental Diagnosis of Children); George Alonzo Mirick (Elementary Education); Oscar Charles Gallagher (Junior High School); Arthur Orlo Norton (History of Education); Charles Swain Thomas (Teaching of English). The Collection of Tests and Measures maintained by the Division was put under the charge of Lewis Adams Maverick; and Miriam Feronia Carpenter was made Registrar of the School. Edward Andrews Lincoln was appointed Assistant in charge of Clinical Testing, and in the course of the year William Henry Geer, Director of Physical Education, and John Tucker Murray, Director of the Summer School, were made members of the Faculty of the School.

The Laboratory of Educational Psychology has been maintained as before, in connection with the Psychological Laboratory in Emerson Hall. For the use of the Psycho-Educational Clinic, organized for the study of children by means of the newly developed tests of intelligence and for the study of individual development by other means, the Corporation granted to the School, and the School put into repair, the Palfrey House, a large, old dwelling house on the Palfrey estate, behind the Engineering Laboratory. The House is fairly suited to the needs of the Clinic, which has made a most promising beginning in its special field. The Bureau of Vocational Guidance has suffered from cramped quarters in Lawrence Hall, but has continued its productive work, with special emphasis on the analysis of occupational conditions and the preparation of materials for the school study of occupations.

At the suggestion and with the coöperation of Mr. Charles B. Hayes, Director of the Division of the Blind, Massachusetts De-

partment of Education, and Mr. Edward E. Allen, Director of the Perkins Institution for the Blind, an extension course was organized on the Education of the Blind. The expenses of the course were met in large part by contributions from the Massachusetts Association for Promoting the Interests of the Adult Blind and from the Permanent Charity Fund. The course was well attended and is likely to stand as the beginning of a type of work which has long been needed but which has never heretofore been successfully carried on.

A new curriculum was organized for teachers and directors of physical education, the only curriculum offered by the School for a group of school workers not adequately provided for by the Division. This addition to the offering of the School was made possible by the coöperation of Professor Roger Lee and Mr. William H. Geer, of the Department of Physical Education. It is difficult to measure the service which the School may render in such a field, for in physical education, as in many other phases of school work, there is need for the leadership of men who have combined with a broad general education the best available technical training.

The courses regularly offered by the Division were somewhat extended, rearranged, and grouped into curricula. A table appended to this report shows the arrangement of courses during this first year and the enrolment in them. Lawrence Hall, where most of the work of the School is done, was repainted and made somewhat more convenient. Before the issue of the first catalogue many decisions had to be made as to admission, degrees, scholarships, and similar matters, and the administrative machinery of the School perfected. The organization of the School led also to changes in the organization of the Summer School, which became a joint enterprise of the Graduate School of Education and the Faculty of Arts and Sciences. The detailed execution of such adjustments, important at a time of change in organization, has been time-consuming. Although it would have been a satisfaction to announce further additions to our staff, especially to the higher ranks, at the very opening of the School, the reorganization and expansions actually undertaken make a total change which is significant and which has proved sufficiently burdensome to effect.

The result of the new organization was apparent in a satisfactory initial enrolment. Whereas the Division had never enrolled more than 107 graduate students, including graduate students from Radcliffe College, and of these 107 many were taking only a single

course in Education as an incident in their candidacy for a degree in another subject, the School enrolled 161 students during its first year, not counting 10 students registered primarily in the Faculty of Arts and Sciences and 7 in Radcliffe College who were taking one or more courses in Education. Of these 161 students, 133 were candidates for degrees and 44 were devoting their whole time to study. Of the 44 whole-time students, 31 were men, and 13 women. The quality of the entire group was excellent. Statistics of enrolment are given in the appended tables.

It will be noted that 31 students in the Prince School were candidates for the degree of Master of Education, in addition to the 161 students enrolled in the Graduate School of Education itself. The Prince School is an institution for the training of directors of education in retail stores and of teachers of retail-business subjects in continuation schools, commercial high schools, and commercial schools of college grade. It was affiliated during 1920-21 with Simmons College and with the Graduate School of Education. It has been the hope of the School that this affiliation might develop into a complete consolidation of the Prince School with our own institution and this possibility is still under discussion. The Prince School students formed a distinct group, in the instruction of which our faculty participated. Including this group, our entire enrolment for the year reached 192.

In the course of the year the School recommended 64 candidates for the Ed.M., one at mid-years and 63 at Commencement. The Division had never recommended for the degree of A.M. on a programme in Education more than 21 candidates in a single year.

It is not too much to say that the very establishment of the School has met with an encouraging response. Without notable change of programme, without extensive advertising, and without any attempt to meet demand by lowering standards, the School attracted in its first year a group of graduate students much larger than the Division had ever attracted and of fully as good a quality.

The degrees offered by the School are new to Harvard and practically new to American education — at least as the degrees of a university of high standing. Yet there has been very little question as to their meaning and value. In its first year the School had 111 candidates for the *Master of Education* (Ed.M.) and 20 candidates for the *Doctor of Education* (Ed.D.). Although it is still possible to secure the Ph.D. on a programme of studies in Education, there were but two candidates for the older degree in this field, one of whom, an Englishman, has since shifted to the professional degree

on the advice of English educators. There is a place for the purely scholarly study of Education, and the professional doctorate itself demands, of course, scholarship of an exacting sort; but our theory of the Ed.D. is that it means not merely scholarly work, but the completion and fulfillment through such work of a period of professional training both general and special.

It is important to observe that the work of the School is directed toward a particular professional group — the school workers, both teachers and administrative officers. We cannot succeed except as we offer the kind and grade of preparation for school service which proves practically valuable. It need not on that account be narrow; but it must be pointed. If the new degrees were unacceptable they would not be sought; but here the name of the University is perhaps an adequate safeguard. If the work of the School were to lead to no genuine increase of professional power its degrees would soon lose their attractiveness. The School must make its degrees the symbols of professional readiness — of broad intelligence and of practical skill in a chosen field. Students of Education are not educators in a vague or indefinite sense. They are candidates for well-defined careers and for the most part they have already started on those careers. We do not train college or university teachers at all, except college teachers of Education; and we are in no important sense, therefore, competitors of the Graduate School of Arts and Sciences. The outlook of the School is toward a distinct and rapidly developing professional group and it is a satisfaction to find that the new professional degrees have already found favor with that group. The final condition of the success of the Graduate School of Education is the continued and increasing demand from the schools for college-bred men and women with university professional training.

For this very reason the School faces a difficult problem in the organization of its courses into curricula. Its first business is to make sure that its students are a selected group, personally qualified for the work they are preparing to enter. For this we must rely in general on our requirements for admission, although we have a certain chance for the correction of error in the operation of our appointment service. The systems of registration and of appointment devised by Miss Carpenter have proved admirably adapted to our uses and Miss Carpenter's report on appointments, appended hereto, is the record of an activity indispensable to the School. Quite aside, however, from the initial selection and final placement of our students, we must see to it that they secure dur-

ing their stay in the School both a grasp of the fundamental principles of education and an increase of power in a particular field of work. For this purpose we must guide their choice of courses wisely and organize our work with that end in view.

If we had two years or more in which to accomplish this double purpose, the task would be easier. As it is, most of our students stay with us but a single year, and for the present this is all we can expect. We cannot permit great specialization in so short a period. Accordingly, we cannot seek for our staff specialists on full-time appointment. Taking a half-course as the unit for reckoning, eight such units constitute a year's work for the ordinary student. Not more than three of the eight can profitably be spent in preparation for a special educational task by those who come to us for a single year and without previous study of Education. A specialist on our staff would commonly secure too few students to occupy his entire time. We must therefore pursue an opportunist policy in developing courses of special character. Mr. Thomas, who gives our course in *The Teaching of English*, is a teacher of wide experience, an authority in his field, whom we are able to secure as a Lecturer because his work with the Atlantic Monthly Press permits him to devote part of his time to instruction in the School. Such chances we must take as they appear and others we must make through coöperation with nearby school systems or other departments of the University. Therefore, we cannot offer at once such a range of practical training as might attract many students.

Furthermore, it is fundamental to our purpose that graduates of the School shall have a broad professional outlook and this we must guarantee by insisting on the value of general courses. But this whole situation means that we cannot make even our general courses too leisurely or unduly remote or theoretical. Many of our students, fortunately, are not preparing to be specialists in the teaching of a subject. They are preparing for administrative work, or for psychological or statistical work, for the teaching of Education in colleges or normal schools, or for comparable posts. Their specialization is provided for by the instruction given by our full-time staff. For all our students, however, we face the problem of compacting into a brief period a training which shall be both broadening and applicable to a particular career.

In the Summer School we have the opportunity to offer many special courses which we could not give in the academic year because we could not get the men to give them on the part-time plan

which we must necessarily adopt. This opportunity we have seized. Last summer we offered 30 courses, in which were enrolled 704 students, of whom 173 were candidates for degrees in the School. In extension work we have a similar opportunity. We can serve the special needs of the teachers of towns within easy reach by means of extension courses of varying character and duration, and of such work we should undoubtedly do more. It will serve to attract many teachers to further professional study and subserve our fundamental purpose of raising the standards of professional preparation.

The problem of organization as it is presented by summer-school and extension teaching is a problem of conflict of duties. We are deeply concerned to develop research, for which there is even greater need in Education than in other subjects. We cannot allow our regular courses to suffer. Yet we ought to meet the demands of teachers and administrators and unless we do so generously we shall find our student body dwindling and our work growing thin for lack of contact with the real problems of the schools. With respect to extension work, the way out is to expand our staff so that most of us shall be able to do a certain amount of extension work, and to organize this as a component part of the work of the School, so that it shall not threaten the provision of time and means for research or for the teaching of basic courses.

The need of organizing our instruction so that it may meet the varying demands of a developing profession thus appears at every turn. It is even more important than the need of recruiting for the staff men of notable quality or special training. It is true that we should gain much by the appointment of a single new man of high reputation, and there are several fields in which new appointments to the lower ranks would be very desirable. Thus, for example, an appointment in the field of Commercial Education would be an important step in advance. But almost any addition to our staff will help in meeting our problem of organization. The need to add specific courses to our offering is not so pressing as the need to add to the number of instructors available for the work already in view. Extension of our programme in any given direction is not so important as the general expansion of our staff.

I list here but do not discuss at length certain opportunities for the profitable expenditure of funds. The Library of the School should be enlarged and made more convenient for the students, and the collection of books and pamphlets in Education in the University Library should be enlarged and in some ways rearranged

and improved. We greatly need funds for scholarships and fellowships, especially for a few fellowships of large amount which might be assigned to men who could spend a year in research irrespective of candidacy for a degree. A number of special research enterprises call for support — particularly studies of individual development which have been undertaken by Professor Dearborn through the Clinic and constructive studies of tests in high-school subjects which Professor Inglis has started. We stand in great need of a building, but if the Business School could find new quarters and give us all of Lawrence Hall, the immediate need of room for our work might be met. Before long, however, the School should have a building of its own and with it a building for a school for children in which to define and exemplify the best known organization and procedure in elementary and in secondary education.

We share a difficulty faced by all the professional schools in Cambridge in securing living quarters for students, especially for married students. If it is possible to provide through Phillips Brooks House for more effective personal attention to this need, that should be done; otherwise a coöperative arrangement among the several schools may be desirable.

In the recent death of Frank V. Thompson, Superintendent of Schools in Boston and a member of our Overseers' Committee, the School lost a warm friend and an adviser who would have been able to do much for us in the years immediately ahead. A graduate of the Division of Education, he had come into close contact with several of its members and had taken a great interest in the development of the School. His whole career was an example of the kind of professional service for which we are seeking to prepare our students.

Professor Paul H. Hanus retired from active service at the end of the academic year 1920-21 and was appointed Professor Emeritus. To meet a special need he taught through the 1921 session of the Summer School, although at the cost of a strain he had hoped to avoid. For thirty years Professor Hanus had worked indefatigably for the development of instruction in Education at Harvard and had rendered notable service to education in the Commonwealth and in the nation. The School stands as a monument to his vision and his zeal.

HENRY W. HOLMES, *Dean.*

November 1, 1921.

APPENDIX

TABLE I. — STUDENTS IN THE GRADUATE SCHOOL OF
EDUCATION; 1920-21

Total number enrolled in the School	161
Men	100
Whole time	31
Part time	69
Candidates for a degree	93
Special students	7
Women	61
Whole time	13
Part time	48
Candidates for a degree	40
Special students	21
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Total whole time students	44
" part time students	117
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" candidates for a degree	133
" special students	28
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Prince School students who were candidates for the Ed.M.	31

TABLE II. — DEGREES HELD BY STUDENTS IN THE SCHOOL;
1920-21

	From Harvard	From Radcliffe	From other institutions	Total
A.B.	19	8	76	103
S.B.	5	..	17	22
Ph.B. ....	..	..	5	5
B.L. ....	..	..	2	2
A.A.	1	1	..	2
A.M.	10*	..	21	31
Ph.D. ....	..	..	2	2
S.T.B. ....	..	..	2	2
B.D. ....	..	..	4	4
Grand total				173†

* Two students who hold Harvard A.M.'s also hold A.M.'s from other institutions. Of the 29 graduates of Harvard College enrolled in the School, 6 hold a Harvard A.M. in addition to a Harvard undergraduate degree.

† This number represents *degrees*, not the students who hold the degrees. Of the 161 students enrolled in the School, 97 hold a Bachelor's degree only.

TABLE III. — COLLEGES AND UNIVERSITIES REPRESENTED
BY GRADUATES IN THE SCHOOL; 1920-21

Albion College.....	1	Penn College.....	1
Amherst College.....	3	Pomona College.....	1
Antioch College.....	1	Radcliffe College.....	9
Baker University.....	1	Smith College.....	2
Bates College.....	4	Trinity College (D. C.).....	2
Boston College.....	3	Tufts College.....	2
Boston University.....	9	Union Theological Seminary....	2
Bowdoin College.....	3	University of California.....	2
Bridgewater College.....	1	University of Chicago.....	1
Brown University.....	4	University of Denver.....	1
Bryn Mawr College.....	1	University of Illinois.....	1
Carthage College.....	1	University of Maine.....	1
Clark University.....	3	University of Minnesota.....	1
Colby College.....	2	University of Missouri.....	2
College of William and Mary...	1	University of Nebraska.....	1
Columbia University.....	6	University of New Brunswick...	1
Cornell College.....	1	University of North Carolina...	1
Cornell University.....	1	University of North Dakota....	1
Dartmouth College.....	5	University of Pittsburgh.....	1
Earlham College.....	1	University of Southern California	1
Franklin and Marshall College..	3	University of South Dakota.....	1
General Theological Seminary...	1	University of Vermont.....	1
Grinnell College.....	1	University of Wisconsin.....	1
Harvard College.....	29	Vassar College.....	2
Haverford College.....	1	Victoria University.....	1
Leland Stanford Junior University	1	Wabash College.....	1
Massachusetts Agricultural Coll.	3	Washburn College.....	2
Middlebury College.....	2	Washington University.....	1
Mt. Allison College.....	1	Wellesley College.....	4
Mt. Holyoke College.....	1	Wesleyan University (Conn.)...	1
Nazarene College.....	1	Western Reserve University....	1
New York University.....	1	Wheaton College.....	1
Oberlin College.....	1	Williams College.....	1
Ohio University..	1	Foreign Universities.....	5

TABLE IV. — BIRTHPLACES OF STUDENTS IN THE SCHOOL;
1920-21

Students born in the New England States.....	100
“ “ “ other Northern States east of the Mississippi River ..	31
“ “ “ Southern States east of the Mississippi River.....	4
“ “ “ States west of the Mississippi River.....	12
“ “ “ the Dominion of Canada.....	4
“ “ “ other foreign countries.....	10

TABLE V. — DEGREES CONFERRED; 1920-21

The degree of Doctor of Education was conferred in June, 1921, upon the five men named below.

CUMMINGS, LESLIE OLIN, A.B. 1910, A.M. 1911.

Field, Educational Administration. Thesis, "Coöperation in School Administration." Assistant Professor, Harvard Graduate School of Education.

DEXTER, WALTER FRIAR, A.B. (*Penn Coll.*) 1916, A.M. (*Columbia Univ.*) 1919, ED.M. (*Harvard Univ.*) February, 1921.

Field, Educational Administration. Thesis, "The Administration of School Finances in Iowa." Professor of Education, Earlham College, Richmond, Indiana.

HOLL, ROY CLAUDE, A.B. (*Wabash Coll.*) 1907, A.M. (*Harvard Univ.*) 1917.

Field, Secondary Education. Thesis, "The Results of Vocational Education in Secondary Schools." Associate Professor of Education, North Carolina State College for Women, Greensboro, North Carolina.

MACDONALD, NEIL CARNOT, A.B. (*Univ. of North Dakota*) 1900, A.M. (*ibid.*) 1908.

Field, Educational Administration. Thesis, "Rural Schools and Rural School Consolidation in the United States."

REED, CASS ARTHUR, S.B. (*Pomona Coll.*) 1906, B.D. (*Union Theological Sem.*) 1911, A.M. (*Columbia Univ.*) 1911, A.M. (*Harvard Univ.*) 1912.

Field, Educational Administration. Thesis, "Problems of American Education in the Near East." Dean, International College, Smyrna, Asia Minor.

The degree of Master of Education was conferred in June, 1921, upon 40 students of the School, 27 men and 13 women, and on 23 students of the Prince School. The first degree conferred by the School was the degree of Ed.M. granted to Mr. W. F. Dexter at mid-years 1921.

TABLE VI. — SCHOLARSHIPS; 1920-21

Spring applicants for a first appointment	18	
Later applicants	11	29
Appointed to scholarships	11	
Entered the Graduate School of Education without receiving an appointment	4	
Entered other Departments of the University	1	

One candidate who had been assigned a scholarship in the Graduate School of Arts and Sciences transferred his registration to the Graduate School of Education and was permitted to retain his scholarship.

TABLE VII. — COURSES OF INSTRUCTION; 1920-21

COURSE	INSTRUCTOR	SUBJECT	REGISTRATIONS
EDUCATION: A1	Associate Professor Johnson	Individual Development and Education	10 G.Ed.
A2	Professor Holmes	Social Policy and Education	35 G.Ed.
A101-2	Associate Professor Johnson and Professor Holmes	Individual Research in the Theory and Principles of Education	5½ G.Ed.
B1	Professor Dearborn	The Principles of Educational Psychology and Mental Hygiene	23 G.Ed. 1 G.A. and S.
B3	Assistant Professor Shaw	The Measurement of Intelligence	27 G.Ed. 2 G.A. and S. 1 H. C. 4 Rad.
G1	Professor Dearborn and Assistant Professor Shaw	Educational Measurement (Introductory Course)	17 G.Ed. 1 G.A. and S. 1 Rad.
G2	Assistant Professor Shaw	Educational Measurement (Advanced Course)	11 G.Ed.
B8	Assistant Professor Shaw	School Hygiene	7 G.Ed.
B21-22	Professor Dearborn	Research in Educational Psychology	1 G.A. and S.
B23-24	Professor Dearborn, Assistant Professor Shaw, and Dr. Fernald (Lecturer)	The Clinical Testing of Children	8½ G.Ed. ½ Rad.
B26	Professor Dearborn	Problems in Mental and Physical Development	5 G.Ed. 1 Rad.
B-G101-2	Professor Dearborn and Assistant Professor Shaw	Individual Research in Educational Psychology and Educational Measurement	8 G.Ed. ½ G.A. and S.
C	Professor Norton (Lecturer)	The History of Education	5 G.Ed. 1 H.C.
D1-2	Professor Hanus	Organization and Management of City School Systems in the United States	15 G.Ed. 1 H.C.
D4	Mr. Cummings (Instructor)	County and Local (Rural) School Administration	1 H.C.
D21-22	Professor Hanus	Problems in Educational Administration	11½ G.Ed.
D101-2	Professor Hanus and Mr. Cummings	Individual Research in Educational Administration	1½ G.Ed.
E1-2	Mr. Mirick (Lecturer)	Elementary Education	5 G.Ed.
E21-22	Professor Holmes	Problems of the Elementary School	2½ G.Ed.
E101-2	Professor Holmes and Mr. Mirick	Individual Research in Elementary Education	1½ G.Ed.
F1	Professor Inglis	Principles of Secondary Education	27 G.Ed. 1 H.C. 2 Rad.
F2	Professor Inglis	Principles of Teaching in the Secondary School	9 G.Ed. 1 Rad.
F4	Mr. Beatley (Instructor)	Apprentice Teaching in the Secondary School	4 G.Ed.

COURSES OF INSTRUCTION (*continued*)

COURSE	INSTRUCTOR	SUBJECT	REGISTRATIONS
EDUCATION: F6	Professor Inglis	Secondary School Administration	18 G.Ed.
F8	Mr. Gallagher (Lecturer)	The Junior High School and Plans for the Reorganization of Secondary Education	12 G.Ed.
F21-22	Professor Inglis	Problems of Secondary Education	16½ G.Ed.
G23-24	Professor Inglis	Tests and Scales for the Secondary School	8½ G.Ed. ½ G.A. and S.
F101-2	Professor Inglis and Mr. Beatley	Individual Research in Secondary Education	1½ G.Ed.
FM10	Mr. Thomas (Lecturer)	The Teaching of English in the Junior and the Senior High School	10 G.Ed.
H1	Associate Professor Brewer	Vocational Education in Schools	9 G.Ed.
H2	Associate Professor Brewer	Education in Industry	20 G.Ed. 1 H.C.
K1	Associate Professor Brewer	Vocational Guidance in Schools	15 G.Ed. 1 H.C.
K2	Associate Professor Brewer	Vocational Guidance in the Occupations	18 G.Ed. 1 H.C.
H-K21-22	Associate Professor Brewer	Problems in Vocational Guidance and Vocational Education	9 G.Ed. 1 G.A. and S.
H-K101-2	Associate Professor Brewer	Individual Research in Vocational Education and Vocational Guidance	3 G.Ed.
L1	Associate Professor Johnson	Play in Education	5 G.Ed.
L2	Associate Professor Johnson	The Administration and Conduct of Play and Recreation in School Systems	8 G.Ed.
L21-22	Associate Professor Johnson	Play and Recreation	4½ G.Ed.
L101-2	Associate Professor Johnson	Individual Research in Play and Recreation	1 G.Ed.

TABLE VIII. — REPORT OF COMMITTEE ON APPOINTMENTS
GRADUATE SCHOOL OF EDUCATION; 1920-21

Total number of persons registered with the Committee.....	584
Number enrolled during the year.....	221
Total number of requests from employers for the recommendation of candidates.....	423
Includes through University Appointment Office.....	20
Includes through Radcliffe Appointment Office.....	1
These requests are classified as follows:	
College teaching posts (Ap. Of. 9).....	73
Public secondary school subjects (Rad. 1).....	91
Administrative.....	51
Principals of high schools (Ap. Of. 1).....	14
Superintendents of schools (Ap. Of. 2).....	11
College and normal school administration.....	6
Private school administration (Ap. Of. 1).....	10
(Includes headmasters, heads of lower schools, 1 registrar, 1 dean of girls)	
Principals of elementary schools.....	10
Private school subjects (Ap. Of. 4).....	68
Public elementary and junior high schools.....	49
Normal and technical school subjects (Ap. Of. 3).....	24
Supervisors of special subjects in public school systems.....	11
Psychologists.....	5
Special-class positions.....	7
Tutoring and substitute positions.....	9
Evening and continuation school work.....	4
Secretaries.....	7
Summer camp positions.....	4
Miscellaneous.....	20

This includes school and college librarians, Y.M. and Y.W.C.A. general secretaries and executives, statistician, state infirmary superintendent and teachers, playground and recreation organizers and executives.

Total number of positions for which nominations were made.....	227
Total number of appointments secured.....	29
Papers sent or special letters written for specific positions at the request of a candidate.....	162
Number of such positions subsequently secured.....	16

The number of requests for recommendations (423) is so much in excess of the number recommendations made (227) largely because the salaries offered were not sufficiently high to attract candidates with graduate training.

HENRY W. HOLMES, *Dean*.

THE BUSSEY INSTITUTION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Bussey Institution I have the honor to present the following report for the year 1920–21.

The attendance at the institution was very nearly twice that of the preceding year, the students being distributed among the various courses as follows:

Zoölogy	7a (Morphology and Classification of Insects)	11
"	7b (Habits and Distribution of Insects)	8
"	8 Genetics and Eugenics	58
"	18 (Tropical Entomology; Medicine 70b)	4
"	20d (Research in Variation, Heredity, etc.)	3
"	20f (Research in Economic Entomology)	7
Botany	12 Genetics (advanced course)	4
"	15 (Economic Botany)	3
"	20f (Research in Plant Genetics)	4
Applied Botany	20b	1
Forestry	20a (Research in Dendrology)	3
"	20b (Research in Silviculture and Forest Management)	2
Total		108

At Commencement, 1921, the following students were awarded degrees:

EDWARD FRANKLIN GAINES, Doctor of Science in Applied Biology, Special Field, Plant Genetics. Thesis: "Genetics of Bunt Resistance in Wheat."

ESTHER WADSWORTH HALL, Doctor of Science in Applied Biology (Radcliffe), Special Field, Economic Entomology. Thesis: "Braconids Parasitic on Aphids and their Life-history."

HERBERT KENDALL HAYES, Doctor of Science in Applied Biology, Special Field, Plant Genetics. Thesis: "Studies of Inheritance in Wheat and Maize. Pt. I. Inheritance of the Seed and Spike Characters in Crosses between Varieties of *Triticum vulgare* Vill. Pt. II. Production of High Protein Maize by Mendelian Methods. Pt. III. A Critical Analysis of Methods of Maize Breeding."

GEORGE CARLOS WHEELER, Doctor of Science in Applied Biology, Special Field, Economic Entomology. Thesis: "The Larvæ of the Subfamily Dolichoderinæ and Formicinæ, with a General Consideration of the Developmental Stages of Ants."

ARTHUR FREDERIC ALLEN, Master of Forestry.

GUY CHESTER CRAMPTON, Master of Science — Zoölogy.

ROLAND FOUNTAIN HUSSEY, Master of Science — Zoölogy.

REUBEN TOM PATTON, Master of Forestry.

WILLARD LEIGH WACHTER, Master of Science — Zoölogy.

The following students held scholarships during the year 1920-21:

EDGAR SHANNON ANDERSON, Anna C. Ames Scholarship.

GEORGE CARLOS WHEELER, George H. Emerson Scholarship.

WILLARD LEIGH WACHTER, Priscilla Clark Hodges Scholarship.

EDWARD FRANKLIN GAINES, University Scholarship.

WAYNE CHARLES HOLSWORTH, a grant of \$200 from the Bliss Scholarship.

REUBEN TOM PATTON, a grant of \$625 from the Bliss Scholarship.

HENRY BYRON PEIRSON, a grant of \$300 from the Bliss Scholarship for summer work.

Professor Castle during the first half of the year devoted much attention to the elementary course in Genetics, which was as usual given in Cambridge, and to the preparation of the second edition of his book "Genetics and Eugenics," which was issued in the fall of 1920. Throughout the year he carried on investigations on the linkage, or the association of characters in heredity. An exhaustive study was made of the linkage relations of all heritable characters in rabbits, rats and mice. This required the rearing of 40,000 rats and several thousand rabbits and mice. On the basis of this material Professor Castle was able to establish the existence of one pair of linked characters in rabbits, one pair in mice and three pairs in rats. Some time was also devoted to the study and preparation for publication of the data that he has been accumulating for several years on size-inheritance in rabbits. As in previous years the work in Animal Genetics has been greatly aided by a grant of \$2500 from the Carnegie Institution. Laboratory facilities were provided for two Boston physicians, Drs. Reynolds and Macomber, for the purpose of conducting experiments on the relation of nutrition to sterility in rats. These gentlemen reported on their results to the American Medical Association in June.

The library and collections of Economic Botany, in charge of Professor Ames, have been greatly increased and improved during the year; the library has been doubled, new cases have been generously provided by Professor Ames and many additions have been made to the collections by advantageous exchanges with foreign botanical gardens and museums. The British Museum of Natural History has contributed a set of the original samples of cinchona bark collected in Peru by Pavon in the eighteenth century. Extensive collections of Malayan economic plants were received from the Straits Settlements. Coöperative work has been undertaken in China under the direction of Canton Christian College, with the object of collecting and identifying the Chinese

economic plants. Many of these are now passing out of use because imported foreign products are crowding them out of the shops and markets. The Bureau of Science of Manila has contributed plant collections of exceptional value and a collection of Jamaican woods and seeds has been received from Dr. W. R. Maxon of the United States National Museum. Two of our former students, Dr. Orland E. White and Dr. W. M. Mann, have been attached to the Mulford Biological Expedition which is now exploring the Amazon Basin. Through arrangement with Professor Ames, Dr. White will devote his time to making collections of economic plants for the Bussey Institution.

During the past year Professor Bailey has continued his anatomical, cytological and physiological investigations of the cambium and its derivative tissues and has also devoted considerable attention to the phenomena of geotropism and heliotropism in conifers and various aspects of the problems connected with ornithophily and myrmecophily in neotropical plants.

In plant genetics Professor East has published two pieces of work which have been in preparation for the past ten years. One of these is an investigation of the mode of inheritance of the protein content of maize, the other a study of species hybridization in the tobaccos (*Nicotiana*). Several genetic studies and a statistical investigation of certain aspects of the problem of population are being continued. Twelve experiment stations and one large commercial firm, the Funk Bros. Seed Company, are now utilizing the corn-breeding method demonstrated by Professor East and one of the former students of the Bussey Institution, Dr. D. F. Jones, in their book entitled "Inbreeding and Outbreeding." This method is based on a purification of commercial strains by inbreeding and their later hybridization. As an illustration of the scale on which the commercial work is now being carried on, I may mention that over 20,000 strains are being inbred in the United States.

During the first half-year Professor Brues gave the course in Zoölogy 1 for Professor Parker who was absent as exchange professor in the West. During the second half-year Professor Brues gave Zoölogy 18. The laboratory work in this course was expanded and improved by the printing of a special guide. His book on "Insects and Human Welfare" was published by the Harvard University Press and he has published several papers on insect parasitism and symbiotic microorganisms in addition to some taxonomic studies relating mainly to Parasitic Hymenoptera. He

has also helped in conducting the laboratory and field work in the entomological courses Zoölogy 7a and 7b.

My own work, apart from the duties of my office, has been confined to finishing several investigations that have been under way for some time. The proofs of an elaborate report on the Formicidæ of the Lang-Chapin Congo Expedition, a volume of about 1200 pages, now being printed by the American Museum of Natural History, have been corrected and four papers on the materials which I collected in British Guiana during the summer of 1920, two addresses and two papers on Chinese Formicidæ have been published. Most of the past summer was devoted to securing additional material for a study of the Aculeata of Connecticut and of the parasites belonging to the peculiar order Strepsiptera and their effects on their hosts.

In addition to the theses of the four young investigators who were awarded doctors' degrees at Commencement, several valuable pieces of work by other students have been nearing completion. Mr. L. B. Uichanco of the University of the Philippines has made an intensive study of the embryology of viviparous plantlice and of the infection of the embryo with microorganisms lodged in the maternal tissues. Mr. R. F. Hussey has made considerable progress in the taxonomic study of the Hemiptera and Mr. L. H. Taylor in monographing the Chrysidid wasps of North America. Mr. R. Heber Howe, Jr., has been working throughout the year on the dragon-fly nymphs of New England and during the summer Mr. O. E. Plath completed some very interesting studies of the behavior and parasites of our New England bumble-bees.

WILLIAM MORTON WHEELER, *Dean.*

REPORT ON THE HARVARD FOREST

The Harvard Forest has had a prolific year, and its service as a forest experiment station and research laboratory has been widely recognized. It continues to be much visited by foresters and persons concerned in timber land operation, not only from New England, but from more distant parts as well. That the knowledge and experience accumulating in its management are being drawn upon for the solution of professional and public problems is indicated by the following list of committees upon which the director is serving: Committee on the Scope and Character of Research in Schools of Forestry, Society of American Foresters (Chairman); Committee on the Standardization of Forest Sites, Society of American Foresters; New England Section of the Society of American Foresters (Chairman); Sub-Committee on Silviculture of the National Research Council; Special Committee appointed by the Massachusetts Forestry Association to Draft a Law for Forest Taxation; Committee on the Expenditure of the Parkman Fund, Sub-Committee on Trees (Chairman); Forestry Committee of the Boston Chamber of Commerce.

In addition, the Town of Petersham has voted to convert the woodland on its Poor Farm into a town forest, and to ask the Director of the Harvard Forest to advise as to its management.

Since the last Report, a substantial amount of research has been completed. In coöperation with the Massachusetts State Forester, a handbook of tables for the measurement of logs, trees and the growth of stands has been prepared. This was entitled "Forest Mensuration," and published as a Bulletin of the Commonwealth. In the series of Bulletins of the Harvard Forest, begun a year ago, two more numbers have been issued, — one on the "Life History and Control of the Pales Weevil," by H. B. Peirson; the other, on the "Management of the Harvard Forest from 1909-1919," by R. T. Fisher. Now in press is a "Study of the Growth and Yield of Red Oak and White Ash," by R. T. Patton. Completed and ready for printing are the following: "The Control of the White Pine Weevil by Forest Management," by H. B. Peirson (in collaboration with the State Forester); "Quality Increment in Second Growth White Pine," by A. F. Allen. These studies, mainly the fruits of research by graduate students, embody material and conclusions which are largely new to the science of forest management.

R. T. FISHER, *Director*.

THE DIVINITY SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present the following report of the Divinity School for the year 1920-21.

During the year all the members of our Faculty were in residence except Professor Ropes, who was absent during the second half-year, and their courses were given as announced. After the death of Dean Platner, his course, Church History A1, was carried through the year by Professor E. C. Moore.

The death of Professor John Winthrop Platner, Dean of Andover Theological Seminary, which occurred on March 18, 1921, took from our affiliated seminaries a scholar of wide learning and keen insight, a teacher of unusual skill, an administrative officer of wisdom and generosity. Although at the time of his death he was an "Andover Professor in Harvard University" he was also connected with us by previous service on the Faculty of the Harvard Divinity School and was honored and beloved by the whole company of theological teachers in the affiliated schools.

The year was a discouraging one in point of attendance, for only seventeen students were registered primarily in the Harvard Divinity School, of whom eleven were graduate students. In Andover and the Episcopal Theological School, also, registration fell off in about the same proportion. This was probably one of the after effects of the war due to a variety of causes. It may be that college men who would normally have turned to the ministry, but whose college studies were interrupted, were diverted into other occupations by attractive openings, or having failed to finish their college course were not eligible for admittance into our schools which require an A.B. degree. It is believed, however, that the diminished attendance was only an incident, and that another year will show a return to normal conditions.

After an intermission of ten years the Summer School of Theology was revived and held its sessions in Cambridge, from July 6th to July 23d. One hundred and fifty-two students were in attendance. Through the generosity of the Unitarian Laymen's League a substantial part of the expenses of Unitarian ministers attending the School was defrayed by the Laymen's League. It was possible

also to secure lodging and board for our students in the freshman dormitories, thus providing opportunities lacking in previous years for intimate fellowship and private discussion. Thanks to Professor Foote's indefatigable labors the machinery of the School ran with perfect smoothness. Besides the regular lectures various excursions to places of interest were arranged which added greatly to the enjoyment and value of the School. The large preponderance of Unitarian clergymen, on account of the munificence of the Unitarian Laymen's League, while highly gratifying as respects attendance, gives rise to some concern lest the non-sectarian character of the Harvard Divinity School be affected in popular opinion.

One notable event of the year was the holding in Cambridge of the annual meeting of the Inter-Seminary Alliance. Starting several years ago as a joint enterprise of Hartford, Union, and Andover Theological Seminaries, with the purpose of interesting college students in the ministry as a profession, the Alliance was enlarged last year, on the motion of Andover, to include the Harvard Divinity School and the Episcopal Theological School. Aided by the active coöperation of the Phillips Brooks House Association the meetings were well attended. Seventy-eight delegates were registered from various New England colleges and the sessions were valuable even beyond anticipation.

The most significant action of the year from the point of view of theological education was the change made by our Faculty in the requirements for the S.T.B. degree. In 1912 a change was made by which the granting of the degree was based, not upon the satisfactory completion of a specified number of courses, but upon the passing, after three years of residence, of an examination partly oral and partly written — the oral examination covering the entire field of theological learning, and the written calling for more thorough knowledge of a portion of the field selected by the student as one in which he was especially interested and to which he had given particular attention. Thus the Divinity School adopted the principle of concentration and distribution which prevails in the College. But it seemed to the Faculty that it would be wiser to put the distribution into the first two years of the course, thus laying a broader basis for concentrated work and preparing the student to choose more discriminatingly his field of special interest. Moreover, with our small number of students it seemed possible to extend the tutorial system from graduates to undergraduates. Accordingly the Faculty voted in March, 1921,

that the general examination covering the whole field of theology should be held at the end of the second year of residence, and that during the third year, the student, having selected his field or cognate fields of concentration, should work under tutorial supervision, conferring frequently with a member of the Faculty appointed for the purpose upon books read and inquiries pursued, instead of merely listening to lectures. It is believed that this change will prove of value in many different ways; for instance, through the prevalence of the lecture system, an opinion has grown up in academic circles that to know anything about a subject one must have taken a course of lectures upon it, and frequently a student fails to acquire the habit of studying by himself with the aid of books. Possibly this accounts in some measure for the fact that comparatively few clergymen in active service keep up scholarly pursuits. The Faculty hopes that by throwing the student in his senior year more largely upon his own resources and by bringing him more immediately into contact with a member of the Faculty, directing his reading, and acting as his adviser, the result will be to raise the standard of scholarship among our graduates by training them more thoroughly in the use of books and the methods of research.

During the year forty-seven students were in continuous residence. Of the total enrolment of 56, one withdrew in November, two in February, and three in March and three students entered at the beginning of the second half-year. The distribution of the total enrolment was as follows:

Resident Graduates.....	11
Senior Class.....	1
Middle Class.....	4
Junior Class.....	1
Andover Students.....	15
Boston University School of Theology Students.....	10
Episcopal Theological School Students.....	7
Newton Theological Institution Students.....	7
Total.....	56

Forty-eight colleges were represented as follows:

Acadia University.....	3	Luther College.....	1
Amherst College.....	1	Macalester College.....	1
Bates College.....	1	Mercer University.....	1
Beloit College.....	1	Missouri Wesleyan College.....	1
Bethany College.....	1	Mount Union College.....	1
Boston University.....	5	Nebraska Wesleyan University .	1
Brown University.....	2	Northwestern University.....	1
Bucknell University.....	1	Oberlin College.....	1
Calvin College.....	1	Ohio Wesleyan University.....	2
Carleton College.....	1	Princeton University.....	2
Clark University.....	1	Rice Institute.....	1
Colgate University.....	1	Rio Grande College.....	1
Colorado College.....	1	Taylor Institute.....	1
Columbia University.....	1	Toronto University.....	1
Cornell University.....	1	Tufts College.....	2
Hamilton College.....	1	University of Berne.....	1
Harvard University.....	8	University of California.....	1
Henderson-Brown College.....	1	University of Chicago.....	1
Hillsdale College.....	1	University of Denver.....	1
Illinois Wesleyan University....	1	University of Illinois.....	2
Imperial University of Tokyo...	1	University of Minnesota.....	1
LaSalle University.....	1	Vanderbilt University.....	1
Lehigh University.....	1	Williams College.....	2
Leiden University.....	1	Yale University.....	2

Eleven Theological Seminaries were represented by graduates as follows:

Andover Theological Seminary..	1	Newton Theological Institution .	5
Auburn Theological Seminary...	1	Princeton Theological Seminary.	1
Boston University School of Theology.....	5	Seabury Divinity School.....	1
Episcopal Theological School ...	1	Southern Baptist Theological Sem- inary.....	1
Illiff School of Theology	1	Yale Divinity School.....	2
Luther Seminary.....	1		

The interchange of instruction between the Faculty of the School and the Faculty of Arts and Sciences indicates the extent of the contribution made by the Divinity School to the general work of the University. This interchange between the two Faculties in 1920-21 is as follows:

Divinity students, including Andover, the Episcopal Theological School, Boston University School of Theology and Newton Theological Institution students, electing courses offered primarily by the Faculty of Arts and Sciences:

	Total	H.D.S.	And.	B.U.	E.T.S.	N.T.I.
Chemistry.....	1	0	1	0	0	0
Economics.....	3	1	1	0	1	0
English.....	3	1	1	0	0	1
French.....	1	1	0	0	0	0
German.....	1	1	0	0	0	0
History.....	4	1	2	0	0	1
Music.....	1	0	1	0	0	0
Philosophy.....	11	4	1	4	1	1
Physics.....	1	0	1	0	0	0
Psychology.....	3	1	0	1	1	0
Russian.....	1	0	0	1	0	0
Scandinavian.....	1	1	0	0	0	0
	<hr/> 31	<hr/> 11	<hr/> 8	<hr/> 6	<hr/> 3	<hr/> 3

Non-Divinity students electing courses offered primarily by the Divinity School:

		Grads.	Undergr.
Old Testament.....	64	13	51
Church History.....	9	1	8
History of Religions.....	6	3	3
Theology.....	33	7	26
	<hr/> 112	<hr/> 24	<hr/> 88

The interchange of instruction between the Harvard Divinity School and Andover Theological Seminary was as follows:

Elections by Harvard Divinity students of courses offered primarily by Andover Theological Seminary:

Old Testament	3
New Testament.....	2
Church History.....	4
Theology.....	1
Homiletics	2
	<hr/> 12

Elections by Andover Theological Seminary students of courses offered primarily by Harvard Divinity School:

New Testament.....	4
Church History.....	6
History of Religions.....	3
Theology.....	14
Social Ethics	1
Homiletics	8
Public Speaking	1
	<hr/> 37

The interchange of instruction between the Harvard Divinity School and the Episcopal Theological School was as follows:

Elections by Harvard Divinity students of courses offered primarily by the Episcopal Theological School:

Old Testament.....	2
New Testament.....	1
	<hr/>
	3

Elections by Episcopal Theological School students of courses offered primarily by the Divinity School:

Theology.....	1
Social Ethics.....	3
Homiletics.....	6
Public Speaking.....	3
	<hr/>
	13

Elections by Boston University School of Theology students of courses offered primarily by the Divinity School:

New Testament.....	3
Theology.....	1
	<hr/>
	4

Elections by Newton Theological Institution students of courses offered primarily by the Divinity School:

History of Religions.....	4
Theology.....	1
	<hr/>
	5

The following is a list of the courses of instruction offered in the School in the year 1920-21. With each Harvard course is a statement of the number of students electing it from the Divinity School, Andover Theological School, Boston University School of Theology, Episcopal Theological School, Newton Theological Institution, the Graduate School of Arts and Sciences, and Harvard College. In the courses given in the affiliated schools the record of attendance includes only students of primary registration in the Harvard Divinity School.

COURSES OF INSTRUCTION

OLD TESTAMENT

- E1.* Professor KELLNER. — Hebrew for Beginners. 2 Div.
2. Professor LYON. — Hebrew (second course). — Syntax. Extensive reading in the Old Testament. 1 Div., 5 Coll.
- E2* ¹*hf.* Professor KELLNER. — Hebrew. Exegetical study of the prophet Isaiah-ben-Amoz. *Half-course (first half-year).*
- 4a* ¹*hf.* Professor LYON. — The Old Testament as History and as Literature. To the Babylonian Exile, 586 B.C. *Half-course (first half-year).* 15 Coll.
- 4b* ²*hf.* Professor LYON. — The Old Testament as History and as Literature. From the Babylonian Exile till the Destruction of Jerusalem by the Romans in 70 A.D. *Half-course (second half-year).* 22 Coll.
- E4* ³*hf.* Professor KELLNER. — The Old Testament in Hebrew. Sight-reading in Genesis, Deuteronomy, Kings, Jonah, Ruth, and Esther. *Half-course (second half-year).*
- E5* ¹*hf.* Professor KELLNER. — Old Testament Introduction: The Hexateuch, the Historical Books, the Moral Tales, the Prophetical Books, the Poetical Books, and the Wisdom Literature. *Half-course (first half-year).*
- A6.* Professor ARNOLD. — Religion of Israel. — History of the religious ideas and institutions of Israel from the earliest times to the Maccabean age. 3 Div.
- E6* ²*hf.* Professor KELLNER. — Religion of Israel. *Half-course (second half-year).*
- A7.* Professor ARNOLD. — Hebrew: The Poetical Literature of the Old Testament.
10. Professor LYON. — Assyrian.
11. Professor LYON. — Assyrian (second course). 1 Gr.
13. Professor JEWETT. — Arabic. — Socin's Grammar; Brünnow's Chrestomathy. 4 Gr., 2 Coll.
14. Professor JEWETT. — Arabic (second course). — De Goeje's edition of Wright's Grammar; selections from the Qorân, the Hadith, and classical writers on geography and history. 2 Gr., 1 Coll., 1 Rad.
17. Dr. WOLFSON. — Jewish Aramaic. — Marti's Kurzgefasste Grammatik der biblisch-aramäischen Sprache: the Aramaic portions of Daniel and Ezra; inscriptions and papyri; selections from the Targums; Dalman's Aramäische Dialektproben.
18. Professors JEWETT and LYON. — Syriac. — Brockelmann's Syrische Grammatik; selections from the Peshitto.
19. Professors JEWETT and LYON. — Syriac, second course. Nöldeke's Syriac Grammar; selections from Syriac prose of the classical period. 2 Gr.

- 20a. Professor LYON. — Assyrian: Unpublished inscriptions.
- A20. Professor ARNOLD. — Research Course: Old Testament Problems. The special subject will be determined after conference with properly qualified applicants.

NEW TESTAMENT

A. Introductory Courses

1. Professors ROPES, LAKE, and HATCH, Asst. Professor NASH, and Dr. CADBURY. — The New Testament.
- (a) The Books of the New Testament. (*First half-year.*) 2 Div., 4 And.
- (b) Professor HATCH. — The Ideas of the New Testament. (*Second half-year.*) 1 Div., 2 And.
- A2 ¹hf. Dr. CADBURY. — Readings in New Testament Greek.
- E2 ¹hf. Professor HATCH. — The Gospel according to Matthew. *Half-course* (*first half-year.*) 1 Div.
- A5. Dr. CADBURY. — Problems in the Gospels. 1 Div.
- E5 ¹hf. Professor HATCH. — The Fourth Gospel. *Half-course* (*first half-year.*)
- E6 ²hf. Professor HATCH. — The Apostolic Age. *Half-course* (*second half-year.*)
- 7 ¹hf. Professor ROPES. — The Acts of the Apostles. *Half-course* (*first half-year.*)
- E8 ²hf. Asst. Professor NASH. — The Epistle to the Romans. *Half-course* (*second half-year.*)
- A9 ²hf. Dr. CADBURY. — The Epistle to the Hebrews. *Half-course* (*second half-year.*) 1 Div.
- E10. Professor HATCH. — New Testament Greek.
- (a) Grammar and Composition. (*First half-year.*)
- (b) Selections from the New Testament. (*Second half-year.*)
- E11 ¹hf. Asst. Professor NASH. — The Synoptic Gospels (in English). *Half-course* (*first half-year.*)
- A13 ¹hf. Dr. CADBURY. — The Book of Revelation (in English). *Half-course* (*first half-year.*)
- 3-13. Professors ROPES, LAKE, and HATCH. — Interpretation of the New Testament. 2 Div., 2 B.U.
20. Professors ROPES, LAKE, and HATCH. — Advanced study and research.

CHURCH HISTORY

41. Professors PLATNER and E. C. MOORE. — History of the Church in Outline. 4 Div.
52. Professor WASHBURN. — The History of the Church and of Doctrine during the first ten centuries. Lectures, discussions, short papers on questions of modern importance in the light of the Church's experience.
6. Dr. LA PIANA. — The Church from the Council of Chalcedon to the Councils of Basel and Florence.

- A3¹hf. Professor PLATNER. — Christian Institutions, historically and comparatively considered. *Half-course (first half-year).*
- 4¹hf. Professor EDWARD C. MOORE. — History of Christian Life and Institutions in Europe since the Reformation. *Half-course (first half-year).* 1 Div., 6 And., 1 Gr.
- A4¹hf. Professor PLATNER. — History of Christianity in England since the Reformation. *Half-course (first half-year).*
- E4¹hf. Professor WASHBURN. — The English Church, the English State and the Papacy from the beginning to the Reformation. *Half-course (first half-year).*
5. Professor LAKE, DR. LA PIANA, and Professors G. F. MOORE and FENN. — History of Christian Doctrine to 1630. 5 Div
- E5²hf. Professor WASHBURN. — Four English Churchmen. *Half-course (second half-year).*
- 7a¹hf. Dr. LA PIANA. — History of the Eastern Churches from the Tenth Century to the Fall of Constantinople (1453). *Half-course (first half-year).*
- 7b²hf. Dr. LA PIANA. — History of the Eastern Churches from the Fall of Constantinople to the Present Time. *Half-course (second half-year).*
- E9¹hf. Asst. Professor ADDISON. — Introduction to Christian Missions. *Half-course (first half-year).*
- 10²hf. Professor EDWARD C. MOORE. — The Expansion of Christendom and the Naturalization of Christianity in the Orient, more particularly during the nineteenth Century. *Half-course (second half-year).* 2 And., 8 Col
- A10¹hf. Professor PLATNER. — The Reformation. *Half-course (first half-year).*
- 20a. Professor LAKE. — Research course in the History of the Early Church, for advanced students. 4 Div
- 20c¹hf. Dr. LA PIANA. — Readings in Latin Christian Literature. The *Cursus* in Mediaeval ecclesiastical and liturgical writings and in the official documents of the Papal Chancery. *Half-course (first half-year).* 1 Div

HISTORY OF RELIGIONS

- 1b hf. Professor G. F. MOORE. — Origin and Development of Religions. *Half-course.* 2 Div., 1 N.T.
- E3¹hf. Asst. Professor ADDISON. — The Religions of China and Japan. *Half-course (first half-year).*
- E4²hf. Asst. Professor ADDISON. — Redemptive Religions. *Half-course (second half-year).*
- 5¹hf. Professor G. F. MOORE. — Hellenistic Judaism. *Half-course (first half-year).* 6 Div., 1 And., 2 Gr., 2 Col
9. Professor LAKE. — The Beginnings of Christianity. 3 Div., 2 And., 3 N.T.I., 1 Gr., 1 Col
20. Professor G. F. MOORE. — The Jewish Sects. Problems. Methods of philological and historical criticism. 4 Div

THEOLOGY

- 1¹hf. Professor FENN. — Theism. *Half-course (first half-year).*
5 Div., 1 And., 1 Rad.
- E1¹hf. Professor DROWN. — Apologetics: Philosophy of Religion, and the Defence of the Christian Faith. *Half-course (first half-year).*
- 2². Professor FENN. — Outlines of Systematic Theology. *Second half-year.*
6 Div., 3 And.
- A2. Professor EVANS. — Systematic Theology. The Distinctive Truths of Christianity.
- E2²hf. Professor DROWN. — The System of Christian Doctrine, begun. *Half-course (second half-year).*
- 3¹hf. Professor FENN. — New England Theology. *Half-course (first half-year).*
3 Div., 3 And.
- A3²hf. Professor EVANS. — Christian Ethics. *Half-course (second half-year).*
- E4²hf. Professor DROWN. — Christian Ethics. *Half-course (second half-year).*
- A5¹hf. Professor EVANS. — The Psychology of Religion. *Half-course (first half-year).*
1 Div.
- E5²hf. Professor DROWN. — Theology of Coleridge, Robertson, and Maurice. *Half-course (second half-year).*
- 6¹hf. Professor EDWARD C. MOORE. — History of Christian Thought since 1630. *Half-course (first half-year).*
2 Div., 1 And., 1 Gr., 1 Rad.
- E6¹hf. Professor DROWN. — Problems of our own Time: a study of some theological and ethical questions as affected by the war. *Half-course (first half-year).*
- 7a¹hf. Professor EDWARD C. MOORE. — Philosophy of Religion. *Half-course (first half-year).*
2 And., 1 N.T.L., 4 Gr., 12 Coll.
- 7b²hf. Professor EDWARD C. MOORE. — Philosophy of Religion. *Half-course (second half-year).*
3 And., 1 Gr., 14 Coll.
- E7¹hf. Mr. DUN. — Psychology of Religion. *Half-course (first half-year).*
- 3²hf. Professor FENN. — Current Problems in Theology. *Half-course (second half-year).*
4 Div., 2 And.
- E8²hf. Mr. DUN. — Ethics of the New Testament. *Half-course (second half-year).*
- 20a²hf. Professor EDWARD C. MOORE. — Modern Theology, especially as influenced by Ritschl: a survey of constructive work in Theology during the last thirty years. *Half-course (second half-year).*
3 Div., 1 And., 1 E.T.S., 1 Gr., 1 Rad.
- 20c¹hf. Dr. LA PIANA. — Philosophical and Theological Method of Scholasticism, from the beginning to Aquinas. *Half-course (first half-year).*
2 Div., 1 B.U.

SOCIAL ETHICS

- ¹hf. Asst. Professor FOERSTER. — American Population Problems; Immigration and the Negro. — Lectures, prescribed reading, and a research. *Half-course (first half-year).*
1 Div., 3 Gr., 32 Coll.

- 6^{2hf}. Asst. Professor FOERSTER. — Unemployment and Related Problems of the Working Classes, with special reference to Social Insurance. — Lectures and prescribed reading. *Half-course (second half-year)*.
1 Div., 4 Gr., 50 Coll.
- E6^{2hf}. Dr. KAMMERER. — Social Problems. *Half-course (second half-year)*.
- 10^{1hf}. Asst. Professor FORD. — Forms and Methods of Social Service. — Lectures and reports. *Half-course (first half-year)*.
2 Div., 1 E.T.S., 6 Gr., 2 Ed.
- 11^{1hf}. Professor FORD. — Poor Relief. — Case Work with Dependent Families and Administration of Charitable Agencies. — Lectures and prescribed reading. Field work. *Half-course (first half-year)*.
2 Div., 1 E.T.S., 3 Gr., 1 Ed.
- 12^{2hf}. Asst. Professor FORD. — Community Organization. — Lectures, prescribed reading, field work. *Half-course (second half-year)*.
4 Div., 4 Gr.
- 14^{2hf}. Asst. Professor FORD. — The Housing Problem and the Social Aspects of Town Planning. — Lectures, prescribed reading, and research. *Half-course (second half-year)*.
- 15^{2hf}. Asst. Professor FOERSTER. — Recent Theories of Social Reform. *Half-course (second half-year)*.
1 Div., 1 And.
- 16^{2hf}. Professor R. C. CABOT. — The Kingdom of Evils. Lectures, reading, and reports. *Half-course (second half-year)*.
1 Div., 1 E.T.S.
- 18^{2hf}. Asst. Professor FOOTE. — The Minister's Relation to Social Agencies. *Half-course (second half-year)*.
20. Asst. Professor FORD. — Special Researches. 1 Div.

HOMILETICS AND PASTORAL CARE

- A1. Associate Professor SPERRY. — The Minister as Preacher, Administrator, and Pastor. 1 Div.
- E1. Asst. Professor NASH. — The English Bible.
2. Associate Professor SPERRY and Asst. Professor FOOTE. — Preaching. 2 Div., 4 And., 6 E.T.S.
- E2^{1hf}. Mr. SUTER. — The History and Use of the Book of Common Prayer. *Half-course (first half-year)*.
- A3. Associate Professor SPERRY. — The Preacher's Use of Homiletical Sources. 1 Div.
- E3 hf. Pastoral Care. *Half-course (throughout the year)*.
- E4. Preaching.
- E5^{1hf}. Mr. JOHN W. SUTER, Jr. — Introduction to Religious Education. *Half-course (first half-year)*.
- 7^{1hf}. Asst. Professor FOOTE. — Hymns and Hymn Writers of the Christian Church. *Half-course (first half-year)*. 1 Div.
- 8 hf. Asst. Professor FOOTE. — An Introduction to the Literature of Devotion. *Half-course*. 1 Div., 3 And.
- E8. Mr. APPEL. — Church Music.

- 9 hf. Asst. Professor FOOTE. — The History of Christian Worship and of Preaching. *Half-course.*
- E9. Mr. APPEL. — Church Music. Selected topics. *Second half-year.*
- E10. Mr. APPEL. — Organ Playing.
- A11. Asst. Professor DAVISON. — The History and Development of Church Music.
- A12 hf. Asst. Professor DAVISON. — The Conduct of Church Music. *Half-course.*

PUBLIC SPEAKING

1. Associate Professor WINTER. — Training in Voice and Speech. — Preparatory to Course 2. 1 And., 3 E.T.S.
- 2 hf. Associate Professor WINTER. — Sermon Delivery, Scripture Reading, Oral Discussion. *Half-course throughout the year.* 3 E.T.S.
- E7. Mr. APPEL. — Reading and Public Speaking.

During the year there were added to the Andover-Harvard Library, 1168 volumes and 1040 pamphlets by purchase, and 469 volumes, and 1058 pamphlets by gift. There were also transferred from the Harvard College Library 138 volumes and 6 pamphlets making a total of books in the united Library of 115,197 volumes and of pamphlets 63,607. Of these additions there are credited to the Harvard Divinity School by purchase 599 volumes and 483 pamphlets and by gift 176 volumes and 375 pamphlets making the total number of books belonging to the Harvard Divinity School and contained in the Andover-Harvard Library, 45,581 and of pamphlets 18,330.

W. W. FENN, *Dean.*

THE LAW SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Law School I have the honor to present the following report for the academic year 1920-1921.

There are now substantially one thousand students in the School (999 on October 25, 1921). This continued growth, which has now reached the limits of the capacity of our physical plant, requires consideration of what is to be the policy of the School with respect to numbers. New seats have been put in the lecture rooms in Langdell Hall to the extent of what is reasonably possible, and the lecture rooms in Austin Hall have been crowded to a point which is dangerous in view of the possibility of fire. With sections larger than the classes for which the lecture rooms were planned, the alternatives confronting us are further building or arbitrary limitation of numbers. The latter alternative is unsatisfactory for two reasons. In the first place, experience in awarding scholarships has shown that it is by no means easy to select with assurance on the basis of the colleges from which students come and the records they made therein. A limitation of the number of students, say, to one thousand would be sure to exclude students whom ultimately we should prefer to some of those received. Again, it would be likely to restrict the influence of the School by narrowing the field from which it draws. In three years the number of colleges represented in the student body has risen from 155 to 180. Twenty years ago it was 83. It would be unfortunate if anything were done to impair the national character of the student body. On the other hand, care to receive only those whose preparation gives reasonable warrant for believing that they can do the work demanded by the methods and traditions of the School, jealous maintenance of standards at a high level and rigid exclusion of all who do not keep to them have not availed to keep down the rising tide of numbers. The category of unclassified students, which is the weakest point in the student body and might perhaps be cut off with advantage, has been reduced to 43. Thus even if it were done away with the relief would be but temporary. It seems clear that the best interests of the School call for early completion of Langdell Hall. A gift for that purpose would be most welcome.

No changes have been made in the curriculum except addition of a half course in Taxation to be given by Professor Beale. But revision of the curriculum must take place in the near future. The present scheme of twenty-three full courses and eight half courses offered to undergraduates, and four courses and four half courses offered to graduates has grown up gradually in the course of fifty years without much conscious planning, has been determined in many respects by the preferences of particular teachers, or by curricula of the past planned for a different type of school, and is ill-balanced in its details. Moreover, consistently with doing thoroughly what is taken up in the curriculum, it ought to be possible for the student to cover all the important branches of the law in the three years of study. Under the present curriculum this is not possible, and he is left to get up a number of important subjects by himself in his own way. A like situation obtained in Continental legal education at one time. The method of the glossators and commentators was such that no professor could cover more than a fraction of the field in the time allotted for study, and no student could expect more than to learn method and to be conducted by the established method over some chosen bit or bits of the law. The system of Roman law as we now know it was worked out in the universities to meet this condition. System is likewise indicated as the way out for us. But this does not mean that we are to devise some systematic apparatus at once and proceed to teach it dogmatically as something of inherent value. The Harvard Law School is a professional school and a school of the common law. There is no authoritative system of the common law to be taught to our students as the system of Justinian's Institutes is taught to the students of Roman Law, or as the system of a modern code is taught in civil-law countries. The most that may be done is to strive toward a system and teach each subject with reference thereto and in the light thereof.

No school will ever be able to teach everything which the lawyer will need to know even in the way of law. The law school must make a wise selection and leave the rest to the student himself. Nothing is more futile than the idea that a student may be expected to know nothing about a subject unless he has had formal instruction in a course embracing that subject, and that he may be expected to know nothing of that subject beyond the scope of the course. New fields of law are developing continually and lawyers are expected to act intelligently in those new fields without previous study of them in school. The student must learn as an

Year	Whole No. of Students	Total of College Grad- uates	Harvard Grad- uates	Grad- uates of other Colleges	Non- Grad- uates	Per cent of College Grad- uates	No. of Col- leges rep- resented	Degrees con- ferred
1870-71	165	77	27	50	88	47	27	
1871-72	138	70	34	36	68	51	25	
1872-73	117	66	34	32	51	56	25	
1873-74	141	86	49	37	55	61	25	
1874-75	144	82	63	19	62	57	18	
1875-76	173	93	60	33	80	54	25	
1876-77	199	116	74	42	83	58	30	
1877-78	196	121	80	41	75	62	30	
1878-79	169	109	71	38	60	64	24	11
1879-80	177	118	90	28	59	66	20	18
1880-81	161	112	82	30	49	70	19	18
1881-82	161	99	66	33	62	61	22	33
1882-83	138	93	58	35	45	67	32	19
1883-84	150	105	75	30	45	70	25	24
1884-85	156	122	85	37	34	78	31	18
1885-86	158	122	83	39	36	77	29	18
1886-87	188	143	88	55	45	76	34	26
1887-88	225	158	102	56	67	70	32	33
1888-89	225	158	105	53	67	70	32	28
1889-90	262	189	122	67	73	72	41	48
1890-91	285	200	135	65	85	70	33	46
1891-92	370	257	140	117	113	69	48	55
1892-93	405	266	132	134	139	66	54	69
1893-94	367	279	129	150	88	76	56	81
1894-95	413	310	139	171	103	75	74	92
1895-96	475	380	171	209	95	80	82	104
1896-97	490	408	186	222	82	83	82	103
1897-98	551	490	229	261	61	89	77	131
1898-99	564	503	212	291	61	89	78	110
1899-00	613	557	236	321	56	91	67	127
1900-01	655	605	252	353	50	92	83	137
1901-02	633	584	247	337	49	92	92	148
1902-03	644	600	241	359	44	93	94	157
1903-04	743	695	272	423	48	94	111	172
1904-05	766	711	286	425	55	93	114	170
1905-06	727	716	295	421	11	98	118	186
1906-07	705	696	260	436	9	99	126	184
1907-08	719	712	276	436	7	99	122	162
1908-09	690	680	256	424	10	99	121	174
1909-10	765	759	257	502	6	99	127	193
1910-11	790	778	240	538	12	98	135	181
1911-12	809	796	216	580	13	98	145	196 ¹
1912-13	745	733	184	549	12	99	134	177 ²
1913-14	696	693	176	517	3	99	139	162 ³
1914-15	730	725	187	538	5	99	144	146 ²
1915-16	791	786	220	566	5	99	145	174 ⁴
1916-17	857	852	210	642	5	99	155	190 ²
1917-18	297	294	72	222	3	99	90	67 ³
1918-19	128	127	38	89	1	99	53	35 ²
Feb. '19- Aug. '19	307	285	47	238	22	93	100	67 ⁴
1919-20	883	859	214	645	18	98	155	149 ⁵
1920-21	945	916	194	722	29	95	174	206 ⁶
1921-22	999	979	184	795	20 ⁷	98	180	

¹ One of this number received the degree of S.J.D., the remainder that of LL.B.² Two of this number received the degree of S.J.D., the remainder that of LL.B.³ Three of this number received the degree of S.J.D., the remainder that of LL.B.⁴ Six of this number received the degree of S.J.D., the remainder that of LL.B.⁵ Five of this number received the degree of S.J.D., the remainder that of LL.B.⁶ Nine of this number received the degree of S.J.D., the remainder that of LL.B.⁷ Eleven of this number are law school graduates; the others have all completed at least three years of college work and been in the service at least six months.

essential part of his professional training how to master fields of the law with which he has not been made acquainted in the lecture room. Of the new subjects which continually come forward in legal development some are adapted to study in the law school and some are not. Attempt to cover all details superficially is not the path for the law school. It must of necessity select those things which it can do best and in which teaching may do the most for the student, and must teach those as well as may be, leaving the student to do the rest for himself as common-law lawyers have always done. Moreover in training students drawn from the whole country there must be some latitude of choice after a common foundation has been laid in the first year, if the curriculum is to meet the needs of different localities. Some subjects are important for a law office in New York City which are unimportant for practice in the country in the West and South and vice versa. To this extent the elective system must be retained in the second and third years.

No doubt our goal should be instruction in the law as a whole — in the system of Anglo-American law — with certain special subjects superposed. But the time is not ripe to abandon instruction by means of courses in special subjects since that mode of instruction corresponds exactly to the condition of the law which is to be taught. Moreover, because the law is taught thus in subjects it by no means follows that each subject is to be a legal world of its own unrelated to the other subjects in the curriculum. Indeed as things are now students counteract any such tendency in practice by constantly bringing over ideas from one subject to another and compelling a teaching of every subject with reference to the doctrines of every other. Any such tendency is corrected also in some measure by changing teachers from one subject to another from time to time. It may be admitted that the division into subjects is in some measure artificial. But it may be made as little artificial as possible by teaching each subject in the light of the whole science of law, and not merely by a narrowly dogmatic method. It is submitted that this is the right line of progress rather than to divide the curriculum into two parts, one dogmatic and the other abstract and theoretical. Instead of adding an apparatus of theoretical courses as such, the results and modes of thought of the legal science of today should be introduced into each course in the practical curriculum, and the student should learn that science as he learns the common law by studying its applications in the administration of justice and generalizing therefrom.

Instructors	Studies and Textbooks	Exercises per week	Number of students examined						
			1st year	2d year	3d year	Unclas- sified	Special	Out-of- Course	Gradu-
First Year									
Prof. Scott	Civil Procedure at Common Law. Scott's Cases on Civil Procedure . .	2	340	9		22		18	
Prof. Williston and Asst.									
Prof. McLain	Contracts. Williston's Cases on Contracts	3	344	7	2	14		10	
Asst. Prof. Sayre . . .	Criminal Law. Beale's Cases on Criminal Law (3d ed.)	1½	342	3		7		10	1
Prof. Beale	Principles of Liability. Beale's Cases on Liability (2d ed.)	1½	342	2	1	10		10	
Prof. Edward H. Warren	Property. Warren's Cases on Property	2	340	27	2	20		20	
Asst. Prof. Hudson . . .	Torts. Cases on Torts: Ames and Smith (Pound's ed.)	2	342	12		16		17	1
Second Year									
Prof. Wambaugh	Agency. Wambaugh's Cases on Agency	2	158		6	30		4	
Prof. Campbell	Bills and Notes. Ames's Cases on Bills and Notes, Brannan's Nego- tiable Instruments Law (3d ed.) and Chafee's Cases on Negotiable Instruments	2							
Prof. Pound	Equity. Ames's Cases on Equity Jurisdiction, vol. 1	2	91		7	13	1	4	1
Prof. Chafee	Evidence. Thayer's Cases on Evidence (2d ed.)	2	281		5	57		5	4
Asst. Prof. Magruder . .	Insurance. Wambaugh's Cases on Insurance	2	279		3	49		12	1
Prof. Joseph Warren . .	Property. Gray's Cases on Property, vol. 3; Warren's Cases on Wills and Administration	2	12		27	14		2	
Prof. Frankfurter	Public Utilities. Beale's Cases on Carriers (2d ed.). Wyman's Cases on Public Service Companies (2d ed.). Frankfurter's Cases under the Interstate Commerce Act	2	277		3	43		3	
Prof. Williston and Asst.	Sales of Personal Property. Williston's Cases on Sales (2d ed.)	2	28		20	15		1	1
Prof. McLain									
Prof. Scott and Asst. Prof. Hudson	Trusts. Scott's Cases on Trusts	2	279		8	44		3	
Prof. Campbell	Persons. Smith's Cases on Persons	1	269		12	47		8	1
Prof. Campbell	Quasi-Contracts. Thurston's Cases on Quasi-Contracts	1	7		6	1		3	
			13		8	10			

Third Year

Prof. Beale and Asst. Prof. Magruder	2	1	198	30	5
Prof. Wambaugh	2	1	169	25	4
Prof. Edward H. Warren	2	1	192	33	4
Prof. Chafee					
Asst. Prof. Magruder	2		172	24	2
Prof. Joseph Warren	2		55	3	1
Prof. Campbell	2		53	6	
Asst. Prof. Sayre	2		143	16	4
Prof. Williston	1		57	10	
Prof. Frankfurter	1		75	9	3
Mr. Holmes	1		31	7	
Prof. Frankfurter			4	2	
Restraint of Trade	1		9	3	3
Graduate Courses					
Administrative Law	2		4	3	7
International Law. Scott's Cases on International Law	2		7	1	3
Jurisprudence	2		1	1	10
Roman Law. Pound's Readings in Roman Law (2d ed.)	2		2	2	9
International Law Problems	1				2
Labor Law	1				5
Private International Law (advanced course)	1		24	6	4
Public Law	1				1
Modern Developments of Procedural Law	1		1		4

Hence radical changes in the curriculum are not called for. Revision and readjustment will achieve all that is desirable. The labor and expense of preparing case books will make even this conservative program difficult. But it must come soon and we need to be working toward it at once.

Increase in the number of students calls for more effective methods of applying the teaching power to the student body. The development of a system of the common law whereby the elements common to a large number of subjects may be presented effectually once for all is the direction in which improvement is to be sought, but the school cannot move much faster than the law in this respect. It can demonstrate and can preach the need of better logical reconciling of the different departments of our law with each other, and of discovering general principles pervading the whole upon which the phenomena of the different subjects may be brought together. So long as there is, for example, one set of doctrines governing the courts in case of a sale of a chattel, and another set of doctrines and a different mode of thought governing in case of a sale of land, it is necessary to teach Anglo-American law in terms of subjects because the law is in that stage of development.

Two outstanding acquisitions to the library were made during the year. (1) Paul Viollet, Librarian of the *École de Droit* at Paris and Professor of the History of French Law at the *École des Chartres*, author of numerous authoritative books on the development of French legal institutions, died during the war. As librarian, teacher, and author he had possessed and improved great opportunities to collect the literature of the history and development of law of his country. At his death his widow hurriedly packed his library into boxes storing them in cellars of friends and relatives in Paris and the neighborhood. There were difficulties in getting them together again but they were finally overcome and this school and the Law School of the University of Michigan joined in the purchase of the whole collection. It is now in this country in process of distribution between the two schools. (2) The large income taxes in England resulting from the war have forced many families to sell their family portraits. We have been fortunate in securing, to add to those already here, more than a dozen portraits of famous judges, several of them of high distinction as paintings. Among the new acquisitions are portraits of Sir Matthew Hale and Sir George Jeffreys by Kneller which belong chronologically and artistically with the same painter's portraits

of Lords Holt and King already in our possession. There are now seventeen portraits of English judges hanging in the reading room of Austin Hall, ranging in time from Sir Thomas More in the sixteenth century to Baron Huddleston in the nineteenth.

Further progress has been made in providing scholarships. In June 1921 Mrs. Shelton Hale gave over \$4300 to found a scholarship for a first-year student in memory of her husband, Shelton Hale, LL.B. 1916. Also the Harvard Law Club of New York gave a scholarship of \$200 for the year 1921-22 which it expects to renew annually.

Publication of a third volume in the Harvard Studies in Jurisprudence was made possible by the generosity of George W. Wightman (LL.B. 1915) of the Boston bar, and a publication fund to enable us to publish a series of Harvard Studies in Administrative Law was given by Walter E. Meyer (LL.B. 1904) of New York.

Two tables are appended, one showing the growth of the school in point of numbers, and the other giving data as to the courses of study offered during the past year.

ROSCOE POUND, *Dean*.

THE FACULTY OF MEDICINE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The most important occurrence of the past year in connection with the Medical School has been the provision for the establishment of a School of Public Health on a broad basis, a provision made possible through the large gift of the Rockefeller Foundation and the allocation by the University of certain existing budgets and some further funds to this purpose. Since this is to be a "School" and will have a distinct Faculty, it may not be apparent at once why it is of such importance to the Medical School. A consideration however of the past and present relations of medicine and public health, and also of the projected organization of the School of Public Health and its prospective relations to the Medical School, will make apparent why it has a strong bearing upon the Medical School's future. This bearing is so decided indeed that it is not improbable that the present development will prove to be the most important one for many years in its influence upon the future prominence and activity of the Medical School.

Let one reflect upon the changes that have occurred in the past few decades in the relations of the public health organization to the individual practitioner of medicine, in the extent of the province of public health, and in its powers of accomplishment. The question will then at once arise whether an extremely powerful influence can continue long to be exerted by any institution that teaches medicine unless it makes broad provision for the changes that have already occurred and for those that are to come. This would mean provision for studying and contributing to the knowledge and methods of control, prevention and even actual eradication of disease in the mass as well as in the individual; provision for training the practitioner of medicine in the elements of these matters in such way that he may meet capably the frequent situations in which he necessarily has serious responsibility toward the public health as well as toward his individual patients; and likewise, provision for producing experts well prepared to guide and develop the technical administration of public health measures. It would seem at present dangerously complacent to consider provision for this unnecessary.

It is not long since the major activities of the public health organization were comprised under the recording and quarantining of transmissible disease and those other matters that are now found in the division of sanitary engineering, namely water and sewerage systems and the like. By the physician the public health organization was viewed as a necessary and useful one to maintain these things but one with which he might easily have an annoying experience if not very attentive to regulations which were not always tactfully administered. The physician's view of his personal responsibility toward the public health was chiefly in following these regulations imposed by others and in preventing the spread of highly contagious diseases, but in the latter the thought was of his patient's family more than of the community. His duties were therefore looked upon as almost entirely to the individuals who had personal relations with him. The relations between the practising profession and the public health organization were naturally not very helpfully coördinated and not free from antagonism.

Remnants of antagonism still exist, but the relations between the physician and the public health organization have nevertheless been widely and fundamentally altered. The duties of each have become more complex; they have become increasingly and already inextricably interwoven and dependent upon each other; and each has a constantly increasing responsibility toward the other and an increasing need for a comprehension of the principles on which the other works and the serious relation that each has to the success of the other's efforts.

The knowledge that they employ is in large part the same. Even the methods of application of this knowledge have become thoroughly interlaced in many ways. A large part of the duties of the public health organization, especially the administrative and engineering duties, are of an entirely different stamp from those of the physician. The same is true of much of the physician's activities; with many of them the public health officer has nothing to do. But in increasingly broad ways the work of each is the same in essence and different only in aim. Diagnosis and treatment for example were once purely in the domain of the practitioner of medicine. But prompt and reliable diagnosis means prompt control of danger to the public. Among the consequences of this is the fact that things have gradually come to the point where technical methods of diagnosis, in the infectious diseases especially, are now far more largely supplied to physicians by public health

laboratories than by physicians themselves. In some cases even expert clinicians are retained by health departments with final diagnostic authority over attending physicians in doubtful cases. Effectual treatment, especially in the transmissible diseases means a shorter time that each case can be a menace. Constant reduction of the menace through treatment means ultimate control or disappearance of the disease; and already in some infectious diseases treatment has been devised that is so prompt and effectual in its results that the extermination of these diseases, chiefly through treatment, is rationally conceivable, for infectious diseases live mostly by constantly reinfecting other living subjects, their growth being in the main in such living subjects rather than in sewers and in other obscure places. Some of the most important means of treatment are now produced by the public health authorities and supplied by them without cost, with ready recognition of the good to the individual who is ill but with the public at large and lessened disease in the future as the real aim in view. All this increases constantly.

In infectious diseases, in diseases due to occupation, and in some nutritional diseases, it is already true — and the numbers and kinds of diseases always increase — that both the health agent and the physician greet, each as his own gain, every concrete step in the search for cause, diagnosis or cure, the one as an advance in controlling or ultimately actually eradicating the disease itself, the other as a means of reducing suffering and fatality in the individual sick.

But this even is only a part of the change. Disease of almost any kind is precipitated upon the individual very frequently either directly or indirectly by faulty habits of life — habits in food, dress, care of the body, and various things that can in time be largely corrected by education, advice and personal guidance. Clifford Allbutt aptly said that tuberculosis has been to the physician a flogging schoolmaster, driving into him through knowledge of the great scourge recognition of fruitful general methods of attacking most disease. But the public health agent has been a pupil of the same master. He now educates the public at large, but also advises and guides the individual through his force, especially through the public health nurse, and thus exercises what again was long solely in the province of the physician, namely the supervision of nursing and personal advice to the individual. His aim here also is not the individual, but accumulated individuals together make the mass.

It is a vastly different picture from a quarter century ago. The public health organization contributes through the physician to the healing of the sick much that is of essential importance in diagnosis and treatment and in increasing degree it contributes even in direct ministrations to individuals. The physician contributes to the health organization most of the data upon which it bases its statistical and other guides for the changing directions of its activities. He applies to the individual who has disease that menaces the public the measures which the public health officer directs or advises but which could not succeed if the health officer did not have trained and sincere coöperation from the physician. The physician once dealt chiefly with pronounced disease; he has long since added to this as his more important work the arrest or cure of early and slight disease or of disease only suspected. In recent years he very commonly but still in a somewhat tentative way advises his clientele in regard to the prevention of possible but not yet existing disease. He is already a physician *en gros* and a health officer *en détail* if he is trained in and meets the opportunities and responsibilities that are open to him.

All the details that have been mentioned are more or less obvious and well known. They are only the main features of a far more complex picture. Put together in a picture, however, they would appear to make it beyond question that an institution that educates men in medicine does not now educate adequately unless it fits them for their part in this picture. And it can scarcely be claimed that medical schools do this, even now, completely. It is not so much the details of knowledge that are omitted; the knowledge needed for his public health relations is for the most part the same, as has been indicated, as that that the physician needs and acquires when well prepared for the practice of medicine. Some things should be added to it, not in extensive detail but in the form of the principles that guide public health. The chief thing needed, however, is to make the public health aspects of the physician's knowledge and of his activities more visible and living. This will, in any really adequate form, come slowly. The changes above mentioned have in chief part grown up very recently and most teachers of medicine are trained almost exclusively with a view to the individual sick. Adequate presentation of the double viewpoint will not come until it permeates the minds of those who conduct almost all the various courses instead of being still, at best, treated in the general scheme — as public health itself was a generation ago — as a valuable but a rather

minor portion of health activities, boxed off in its own department and a thing quite distinct in most ways from the physician's practical activities.

The development needed can come about most promptly and effectively by the intimate correlation that is projected between the School of Medicine and the School of Public Health and the consequent and almost inevitable infiltration, not simply of the knowledge but even more the infiltration of the interests and the atmosphere of each into the other. But if this is needed now more than it is done, it can scarcely be doubted, when we consider the speed and the extent of the changes referred to, the enormous additions that have been made within a very few years to the effectiveness of public health and the extent to which the public has come to recognize these things, that in a few years more it will be essential and demanded.

Further intertwining of the relations between the two are well nigh certain. This is already sharply recognized in the activities of the nurse. The least disturbance of the home, the greatest effectiveness and the greatest economy are reached when the one nurse ministers to the sick and instructs and guides the family in general health matters and also reports her data back to the health department. This of course is chiefly with the indigent, but the very poor, in so far as they fall under organized health activities, are those who profit most promptly by all health progress. In the direct relations of the nurse then, Government, the public, the family, the sick individual are all included. There are obvious difficulties in developing such relations for the physician but there is no inherent reason why similar relations may not before many years appear and the practitioner still preserve the independence in his main activities that he cherishes beyond all things. Whatever the changes may be there is every indication that it will not be another generation before one may question — as between the practice of medicine and preventive medicine — which is the right hand, which the left in doing the public service.

These considerations alone would probably have forced before long a decisive development here in public health. But a further compelling influence is already the economic one, and this bids fair to increase indefinitely. The economic value, especially of the preventive results, is of course the dominating reason for the wide extension of health services in industrial establishments. The economic importance, which is at times profound, of the control or eradication of particular diseases that threaten whole com-

munities and equally threaten all business undertakings in those communities has been shown by the success in the control or eradication of some diseases in certain localities, particularly malaria and yellow fever. Gradually the economic aspects of any and all disease, the loss entailed upon the community, the employer, the individual, is becoming sufficiently definite — instead of a rather hazy consideration — to make it a strong force. It will probably not be very long before the business aspects of health, in addition to the humane, will compel the doctor as well as the public health officer to exercise all possible preventive skill and will equally compel medical schools to provide that skill. We are fortunate in being able to develop with the demand and we may hope to take part in producing that demand.

The coördinate development of medicine and public health, of service to both the individual and the mass, will be made relatively easy by the projected plan of having the School of Public Health immediately alongside the Medical School, the general administration the same and the Faculties intimately interlocking. A number of departments will give required general courses in each School and most of the departments in either School will offer electives to students of the other School. There is obviously a great economy in the avoidance of duplication of certain departments that are needed in almost identical general form in both Schools. Not impossibly an even greater effect than economy will come from the intermingling of a great variety of activities and interests in the two Schools.

The development of public health teaching and research on a broad scale in coördination with the Medical School has been made far more easily possible by the gradual establishment in the Medical School itself during the last two decades of certain departments that do not exist in most medical schools but that are valuable, in part as now essential requirements in the course, in part for the opportunities they offer graduate students or as elective subjects for undergraduates in medicine. But all these departments are essential in a broad School of Public Health — The Departments of Preventive Medicine, Comparative Pathology, Tropical Medicine and Industrial Medicine. It is impossible to avoid noting that the funds that made the last two mentioned possible and that therefore had so largely to do with stimulating this present development in public health came almost entirely through the initiative, the wide vision and the devoted exertions of one who has taught

the practice of medicine all his life — the distinguished Jackson Professor of Clinical Medicine, Emeritus.

The establishment of such a School has been vastly aided by, and the gift toward its establishment largely due to, the existence of and the things accomplished by the Harvard University-Massachusetts Institute of Technology School of Public Health. The place of this organization will be taken by the new School. That combined School has been really in essence a voluntary association of the Professor of Preventive Medicine in the Medical School, the Professor of Sanitary Engineering in Harvard University, and the late Professor Sedgwick in the Massachusetts Institute of Technology. Through the exertions of these three, with the assistance of others interested, but without financial help and without recompense, there was established nine years ago the first real course for health officers in this country. During these nine years there have been in this School 195 students coming from all parts of this country and from twelve other countries. During this time also, provision has been made by the Department of Preventive Medicine for those who wish to work for the doctorate in public health, and 19 men have received the degree D.P.H. from Harvard University. The importance of the foundations that have been laid by this group of men for what is now about to be undertaken can not be passed over without emphasis.

There have been a number of changes of importance in the Faculty of the School and in its facilities. The Professor of Pediatrics resigned after a service in teaching highly acceptable to the students and graduates. His position has been filled by calling Professor Oscar M. Schloss of Cornell Medical School in New York. With this change has come an arrangement for an increased intimacy of coöperation between the Children's and Infants' Hospitals which will be of great value in prosecuting the study and teaching of the diseases of infancy and childhood. There has also been established at the City Hospital under the general direction of the Professor of Pediatrics a new service in diseases of children which will in a very valuable way increase the opportunities of the Department for teaching and research and for developing young men expert in Pediatrics.

The City Hospital has also arranged to build a new and excellent laboratory for clinical investigation, and coincident with this a Full Professor has been put in charge of the Harvard service in

Medicine at the City Hospital, who will be also the Director of the Laboratory for Clinical Research with good facilities for both teaching and research. Associate Professor Francis W. Peabody has been advanced to a Full Professorship and put in charge of this medical unit. In addition to this, the City Hospital has established a small service for cases of tropical disease and this has been put under the supervision of the Department of Tropical Medicine and under the personal charge of Dr. George C. Shattuck, who has been made Assistant Professor of Tropical Medicine.

With the changes that occurred a year ago in Psychiatry and Neuropathology it has been possible to carry out a very much more intimate and satisfactory correlation between the activities in the Department of Neurology, those in Neuropathology, and those in Psychiatry at the Psychopathic Hospital, and during the year there has been developed very intimate coöperation between these three departments.

There have also been developed further elements of correlation between the various departments in the School, and particularly the Department of Medicine has now in active operation the beginning of a system which it is hoped will intimately coördinate the student's knowledge of Physiology, Biochemistry and Pathology with his work in General Medicine. The teachers in these various departments will take active part in a limited way in the actual course in Medicine in order to endeavor in that very positive way to make the earlier subjects a real part of the later and at the same time to endeavor to correlate the research activities of the laboratory and the clinical departments. The work in the Department of Pediatrics is also being correlated with the work in the Department of Medicine in order to clarify both and to avoid duplication.

The members of the Committee on General Examination have given a very great deal of time and consideration to their work and this Committee continues to add valuable contributions to the study of the effective and defective elements in the general course in Medicine.

A number of valuable contributions in research have been made throughout the year by practically all the important departments. Extensive mention of them is impossible but it is desirable to note one as a very comprehensible example of the usefulness of much of this work. The Department of Pharmacology, in continuing its investigations made in coöperation with the Interdepartmental Social Hygiene Board, has discovered the cause of some of the

untoward effects produced by drugs employed in the treatment of syphilis and has also shown how these may be avoided; and in the same investigation the Department has continued to cooperate with the State Department of Health in the manufacture of arsphenamine ("606") and has developed a product of better quality than the commercial preparations, which is made at less than one-sixth of the cost of the latter and is now available in amounts sufficient to meet the needs of the State hospitals and clinics.

The numbers of both undergraduate and graduate students in Medicine have increased during the year. The numbers of students of various kinds have been as follows:

Medical School.....	444
Graduate Courses.....	641
Tropical Medicine.....	6
Industrial Hygiene.....	16
School of Public Health.....	24
Undergraduate and Graduate students in the Arts and Sciences working in the Medical Sciences.....	17
Total.....	1148
All the special kinds of students were taking all or almost all of their work in the Medical School.	
In addition there were.....	143
Dental students being taught in the Medical School last year, making the total number of students under instruction in the Medical School.....	1291

DAVID L. EDSALL, *Dean*.

THE DENTAL SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit the following report for the academic year 1920-21.

The total number of students registered was 232, distributed as follows:

Fourth-year students	46
Third-year students	37
Second-year students	68
First-year students	79
Special students	2
<hr/>	
Total	232

The following courses were conducted as usual: Drawing, Chemistry, Comparative Anatomy, English, Histology, Anatomy, Physiology, Preventive Dentistry and Oral Hygiene, Oral Anatomy, Oral Histology and Pathology, Prosthetic Technique, Operative Technique, Materia Medica and Pharmacology, Dental Pathology, Operative Dentistry, Theory and Practice, Prosthetic Dentistry, Theory and Practice, Crown and Bridge Prosthesis, Theory and Practice, Extraction and Anaesthesia, Inlay Work, Radiography, Surgery, Surgical Pathology and Oral Surgery, Orthodontia, Theory and Practice, Physical Diagnosis, Dental Jurisprudence and Conduct of Practice, Syphilology, Neurology, and Applied Therapeutics.

On account of the decision to place Bacteriology and General Pathology forward into the third year, beginning in 1921-22, these subjects were omitted last year. Bacteriology will be resumed as a regular course in 1921-22 and General Pathology in 1922-23, thus bringing these two courses together in the first semester of the junior year.

In June, 1921, we graduated thirty-five men, the first senior class under the four-year requirement.

The class established the Phi Sigma Tau Scholarship Fraternity. To be eligible to this Society a student must pass all of his examinations with an average grade of not less than 90 %.

The Committee on Scholarships in the Dental School recommended to the President and Fellows that the stipend from the

Eugene Hanes Smith Scholarship be given to a senior, Harry Moses Ostrander, and it was so awarded.

In October, 1920, a friend of the Dean gave \$2500 to be added to the Eugene Hanes Smith Scholarship, making the principal sum of this scholarship at the present time \$4790. This and the Joseph Eveleth Scholarship are the only scholarships directly under the control of the Dental School, and the School is sadly in need of more such scholarships.

Dr. John Collins Warren presented to the School a photostat of a page from the Illustrated London News of January 9, 1847, announcing the introduction of ether in England and giving the history of its discovery by Dr. Morton.

On April 8 we held at the School a Homecoming for our graduates. The various departments of teaching made attractive and interesting exhibits of their methods of teaching. Supper was served at 7 P.M., followed by a social evening. Over three hundred of our graduates were present. It was very successful in every way, and made so through the arduous work of Dr. Lawrence W. Baker, ably assisted by the teachers and students of the several departments.

The Research Department of the School, known as the Harriet Newell Lowell Society for Dental Research, has held five meetings during the year. The speakers were Dean Smith, Professor Rose-nau, Professor Percy Howe, and Dr. Harry Jerome Baker. At the May meeting the following students who had done research work during the year submitted their report and received certificates of active fellowship: Howell F. Shannon, Lloyd E. Flagg, Frederick A. Trevor, William R. Pepin, Louis G. Barrett, and Harry M. Ostrander. Students Henry J. Carney and William J. Ream continued their work on soluble salts in saliva and urine and the comparative abrasive qualities of dentifrices. Their papers will be published in the December Journal of Dental Research.

Assistant Professor H. Carlton Smith reports the following from the Research Laboratory.

HYDROGEN-ION CONCENTRATION OF SALIVA

"During the past year over one hundred samples of saliva have been examined for their Hydrogen-ion Concentration and a study made of the oral conditions in so far as we were able to obtain reliable information concerning them. Although our analyses do not all agree we have made several observations which we feel are at least a basis for further work in this subject.

"From the analyses made we found that the Hydrogen-ion Concentration (pH) of the majority of salivas lies between 7.00 and 8.00 or between neutrality and N-1,000,000 alkali.

"With a great many cases of patients with pyorrhea or with a tendency to erosion the determination of the pH showed a decided increase in acidity one case giving a result of 5.7. This observation in the case of the pyorrhea patients supports the suggestion offered previously in the Research Proceedings that in general a condition of mild acidosis accompanies pyorrhea.

"The relation between simple or uncomplicated caries and the Hydrogen-ion Concentration was not apparent in the cases examined but it was observed that in cases where the tendency to deposit salivary calculi was marked the Hydrogen-ion Concentration was high. These results gave results 7.4-7.6. Based upon a statement by Dr. Loeb of the Rockefeller Institute for Medical Research, New York, to the effect that the Hydrogen-ion Concentration is very largely responsible for the action of protein on metals and on acid radicals, we suggest the following hypothesis in regard to tartar formation.

"When salivary proteins (as mucin) are present in a solution containing CaHPO_4 (saliva) they will combine with the calcium at the pH of healthy normal saliva (7.2) and produce the 'protective colloid' which prevents the precipitation of $\text{Ca}_3(\text{PO}_4)_2$ or tartar. When the action of this protective colloid is disturbed, perhaps by increased pH, the acid character of the calcium salts causes a union with the alkali and 3CaHPO_4 becomes an alkaline phosphate and a trimetallic lime salt, which is deposited. The action of the protective colloid is not a theory but a well established fact of physiological chemistry. The presence of $\text{Ca}_3(\text{PO}_4)_2$ in tartar is likewise a well established fact. The thing to be proven and in which we invite coöperation and suggestion is the determination of the exact conditions necessary to produce the precipitation of the calcium phosphate.

NEPHRITIC SALIVA

"Some time ago the suggestion came to us that it might be very interesting and perhaps valuable to make a comparative study of some of the solids in saliva and those in blood, inasmuch as the constituents of the saliva are dialyzed through from the blood, and then again the circulation. During this past year with the coöperation of Dr. O'Hare of the Peter Bent Brigham Hospital, a considerable number of analyses have been made on saliva obtained from nephritic patients, and these results obtained compared with

those of the blood analyses of the day. Urea, nitrogen, chlorine, and creatinine have been the substances particularly watched and it is quite evident from our work that the blood and saliva give very much the same analysis as far as these substances are concerned."

Professor Smith truly says "to create and to stimulate desire for independent research is perhaps the chief aim of our Research Society and it was very gratifying this year to have so many of our members carrying on some line of research study."

Howell F. Shannon and William R. Pepin received the annual medal of the Society for original work in scientific study of inlay technique; Frederick A. Trevor, '22, for "A Suggestion Designed to Insure Margins in Casting against Metal"; Lloyd E. Flagg, '22, for "Electrical Conductivity of Oral Fluids."

Assistant Professor Kurt H. Thoma, in addition to the reading of many papers and the giving of many clinics before societies throughout the country, has published the following:

American Text Book of Dentistry, by Ward, Lea & Febiger, Phila. Penn., contribution — "Roentgen Diagnosis in Operative Dentistry," September, 1920.

Oral Hygiene, by Fones, Lea & Febiger, Phila. Penn., contribution — "The Relation of Oral Infections to General Health," November, 1920.

Article in bulletin of Mass. Dept. of Public Health (The Commonwealth), on "The Pathology of Dental Infections in Childhood."

Article in Boston Medical and Surgical Journal, December, 1920, "Contribution to the Knowledge of Cysts of the Jaws."

Article in the Journal of the National Dental Association, May, 1921, "The Use of the Roentgen Ray for Diagnosis of Surgical Diseases of the Mouth."

Dr. Percy Howe, Assistant Professor of Dental Research and Director of the Forsyth Laboratory of Research, reports the following work done in the Forsyth Laboratory:

"During the past year, we have carried out some carefully controlled experiments of the effect of various food combinations upon the teeth of guinea pigs. Dr. McCollum of Johns Hopkins has been kind enough to look over some of our dietaries and to make various recommendations in respect to the work.

We have placed animals on the three groups of substances which for want of a better term are called vitamins. We believe from a comparison of the effects of the different groups, that the antiscorbutic group produces the most pronounced effect, the fat-soluble perhaps some; and the water soluble B also seems to play a part in

the preservation of sound teeth. The effects from the antiscorbutic vitamin deficiency is very pronounced upon the teeth of animals. This seems to be the only way in which it has been possible to effect the teeth in experimental animals. They are regularly decalcified, and conditions similar to caries and pyorrhea are produced. Irregularity of the teeth and asymmetrical skulls are also produced. The effect upon growth and reproduction is marked. Many other lesions occur, such as joint trouble, eye trouble and nervous disturbances. Infections of numerous types occur secondarily.

We are carrying on a considerable amount of histological work in connection with our feeding experiments, and also chemical analyses.

The work has been published in part and described in lectures as follows:

Treatment of Pulpless Teeth, Jour. Nat. Dent. Assoc.

Food Accessory Factors in Relation to the Teeth, Jour. Dent. Res.

Food and The Teeth, Jour. of Home Economics.

Some of these articles or abstracts from them are published in the French, British, Spanish, Japanese, South American, and Australian journals.

Other articles are in the press.

Lectures have been given upon this work before the First and Eighth District Dental Societies of New York; the Eastern Dental Society of New York; before the dentists, physicians, and nurses of the hospitals and the Rotary Club, at Memphis, Tenn., in Kansas City; in Iowa City, before the students, nurses and some of the physicians at the State University; at Des Moines, before the State Dental Societies, nurses and physicians, where Dr. McCollum also spoke. Lectures were given in Buffalo, N. Y., before a combined meeting of physicians and dentists; in Montreal, before the Dental Society and also at McGill University, before the students and staff; at Hartford, Conn., before the Dental Society; at Brockton before both Medical and Dental Societies; at Worcester, before the Medical Society; at Pittsburgh, Pa.; before the New York State Dental Society; before the American Academy of Periodontology in New York City; before the National Dental Association in Milwaukee; and many other lectures given before local societies. In addition to these, the regular lectures have been given as a part of the educational work at the Harvard Dental School. One was given before the Medical Research Workers at Harvard. The Eco-

omic Workers have requested data for their work, which has been furnished in part.

At the present time, the laboratory staff consists of two women assistants, one male assistant, a general helper and myself.

At the present time, we are conducting experiments on about one hundred guinea pigs, individually.

We have begun similar work with monkeys.

The National Dental Association has given me a personal grant of \$2000, all of which is being used in the work.

Mr. Forsyth has been very generous and has given me every facility in the way of apparatus, help and supplies.

We are supplying specimens of the jaws of these experimental animals to many men especially fitted to carry out especial work, such as Dr. J. Leon Williams and Professor Foote. We are also supplying universities with specimens for study purposes.

As a result of this work which we are conducting, the causes of dental lesions appear in a new light."

I feel that our technical and clinical teaching is of a high grade and that each year we are graduating skilled and promising practitioners. It is, however, interesting to note, and promises well for the future of dentistry, the constantly increasing activities in the study and scientific investigation of the problems in dentistry that are not so closely related to and cannot be solved through our technical and clinical knowledge.

EUGENE H. SMITH, *Dean.*

REPORT OF THE DIRECTOR OF SCHOLARSHIPS IN THE MEDICAL SCHOOL

September 27, 1920–September 26, 1921

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I respectfully beg leave to submit a report of the work done in my office at the Medical School for the past year. It seems to me to be an exceptional one. During the year I appreciated that few men needed aid, as well as that a good deal of money had been refunded; but I did not realize that the proportions between the two would be so very different, and yet I think no one has asked for funds and been refused.

	Medical	Dental	Total
Number of applicants for first-year scholarships	21	..	21
Number of applicants for other scholarships...	62	..	82
Number of students interviewed.....	126	6	132
Number of interviews.....	249	6	255
Number of letters received and answered.....	182	40	222
Total number of students aided (exclusive of scholar- ships)	10	1	11
Number to whom money was loaned.....	10	1	11
Number to whom money was given.....	..	..	..
Amount of money loaned.....	\$771.50	\$100	\$871.50
Amount of money given.....	..	..	..
Sources from which money was obtained:			
Private Fund.....	371.50	100	471.50
Anonymous Gifts	400.00	..	400.00
Amount of money refunded.....	1,168.83	390.41	1,559.24

FRANKLIN DEXTER,
Director of Scholarships.

THE LIBRARY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — In the absence of Professor Coolidge, Director of the University Library, I submit the following report on the Library for the year 1920-21.

With the generous support of members of the Overseers' Visiting Committee, the Library has been able to issue quarterly, beginning in June, 1920, under Mr. Winship's editorship, a new library periodical — Harvard Library Notes. The successive numbers, averaging about twenty-four pages each, are full of interesting current matter about the Library, contributed in part by various members of the Staff, and in part by friends and scholars familiar with our collection. In some numbers the contents are of a pleasantly varied character; others contain papers all pertaining to some one department of the Library: — The Theatre Collection, to which Number 2 was devoted, and Fifteenth Century Books, with which Number 5 was taken up. The staff of a great library needs a medium such as this to keep its various members informed as to what the Library is trying to do and what it is currently receiving. The "Notes" also serve to keep the Library in touch with its many friends and benefactors, to whom we are glad to send copies.*

The conditions still remain highly favorable for book purchases abroad. At the beginning of the year, we had, beside our normal income of about \$42,000, an accumulated balance of \$38,000 available for buying books, due to diminished purchases during the years of the War. We were, therefore, in the fortunate position of being able to spend freely, our total expenditure for books amounting to \$73,396, of which \$62,775 was for the College Library, and \$10,621 for the Special Libraries which buy through our Order Department — a large increase over any previous year. Other departments of the University, especially the Law School, have profited by the same unusual conditions, so that the total expenditure for books (and binding) for all departments of the University has been a little over \$107,000, and the total accessions about 93,000 books and pamphlets. At the beginning of another year, our balance for

* Copies are also on sale in the Treasure Room, and will be sent by mail on receipt of twenty-five cents, or of one dollar a year.

the College Library is reduced to \$24,700, and inasmuch as this is in large part made up from the income of restricted funds, and since many of last year's orders are still outstanding, we must now carefully limit our purchases, although the European book market is still full of bargains.

In the administration of the Library, also, especially in the Catalogue Department, we have to exercise great restraint. Rates of pay necessarily increased heavily during and after the War, and under present conditions the pay of skilled workers is not likely to fall, since the demand for competent cataloguers seems to exceed the supply. In fact, the pay for work of this kind has only recently begun to compare favorably with the remuneration for other work requiring similar ability and equipment of a professional nature. The increases in rates made a year ago, and the rise in the prices of most supplies required us to cut down our staff, in spite of a generous addition to our resources granted by the College from its free income. In consequence, we have been unable to handle the increased mass of our accessions, and have steadily fallen behind in our cataloguing. This does not mean that new books and important current accessions have not been promptly put at the service of our readers. This work has been done more promptly and efficiently than ever before, and methods of work are revised and improved from time to time as opportunity offers; but it does mean that there has been a serious accumulation of books of minor immediate interest, many of them difficult to deal with, which are waiting their turn and must some day be incorporated in the Library. In the meantime, they are relatively, though not absolutely, inaccessible. To catch up with arrears of this kind is always troublesome and expensive.

To certain volunteer workers we are indebted for valuable assistance — to Mr. L. A. Crosby — for continuous work on our Spanish plays, and more recently on other Spanish literature, to Mr. J. Francis Driscoll for help in arranging several thousand pieces of sheet music, and to Dr. J. W. Rice and Miss Anna Gay — the former from the New York State Library School, the latter from Simmons College.

Three new book funds were established during the year: the Percy Chase Fund, \$990, in memory of Percy Chase, '88, from whom the Library received some years ago a collection of manuscript records of the voyages of clipper ships (circa 1845-1855), the income of the fund to be used for the purchase of books on astronomy and navigation; the George Schünemann Jackson Fund,

\$39,000, given in honor of their father and mother, Mr. and Mrs. Charles C. Jackson, '63, by the brothers and sisters of George S. Jackson, '05, who rendered valuable service in the War and died soon after its close, the income to be used for the purchase and maintenance of books, preference to be given to those treating of social welfare and service, moral philosophy, civics and like subjects; the bequest of John W. T. Nichols, \$5000, to establish a fund in memory of his father, George Nichols, of the class of 1828, the income to be used for the purchase of books on English literature.

Grateful acknowledgment is also to be made for subscriptions to the Endowment Fund, in memory of Harry Elkins Widener, amounting to \$150,000, from Mrs. A. Hamilton Rice, her son George D. Widener, and her daughter Mrs. Fitz E. Dixon, the income to be used toward the administrative expenses of the Library.

Separate mention of other gifts and bequests is omitted here since notice of the more interesting and important of these has already appeared or may shortly be expected in the "Notes."

The purchases of the year included a precious collection of Savonarola tracts, one hundred and fifty-nine in number, of which one hundred are incunabula, collected by the artist, Henry R. Newman; a companion collection of Florentine Rappresentazioni, formed by the late C. Fairfax Murray; the library of the French archaeologist and scholar, the late Abbé Thedenat, comprising several thousand volumes, but containing fewer items of value new to our shelves than we had hoped; and an extensive collection of German material relating to the War, including pamphlets, broadsides and papers, made for us by our Leipzig agent, Harrassowitz.*

In the Treasure Room a succession of interesting exhibitions have been held, displaying the Library's resources in special fields, and supplemented in some cases by items lent by others. The subjects have been: Early History of Congregationalism, Early History of Harvard College, Early History of Massachusetts, John Keats (with a Sunday afternoon address by Professor Lowes), Reproductions of Holbein Portraits in the Royal Collection at Windsor, Martin Luther (with a Sunday afternoon address by Dr. Preserved Smith), Dante, and Recent Acquisitions of Rare Incunabula and Early Music. In the Widener Room some of Harry Widener's

* Supplemented by a valuable collection received later from Ellis Loring Dresel, '87, of war newspapers, revolutionary journals, and aeroplane propaganda.

books are always to be seen in the show-cases, and are changed from time to time with reference to the English authors under consideration in college courses.

The American Library Association was received at the Library on the afternoon of Commencement Day, and was entertained at supper as guests of the College and the City in the quadrangle behind Sever Hall after the Commencement Exercises were finished.

The photostat, in the hands of Mr. R. H. Pearman, the skillful operator of the Massachusetts Historical Society's photostat, has been in almost daily use, and has rendered a service which is much appreciated. One hundred and eighty-four different jobs have been taken, bringing in \$772.73, a sum sufficient to cover the cost of operation, and leave a small margin for depreciation and unforeseen expenses.

The usual statistical tables are given in the appendix.

WILLIAM C. LANE, *Librarian*.

APPENDIX TO THE LIBRARY REPORT

Accessions

The accessions to the University Library for the year and the present extent of each of its parts are shown in the following tables:—

LIBRARIES	Volumes and Pamphlets added	Present extent in Volumes and Pamphlets
College Library :—		
Main Collection	33,300	1,127,500
Forty-four Special Libraries	8,000	134,300
Total	41,300	1,261,800
Departmental Libraries :—		
Law School	30,000	238,500
Andover-Harvard Theological Library	2,300	177,800
Museum of Comparative Zoölogy	3,300	120,500
Peabody Museum	392	16,200
Astronomical Observatory	1,000	52,900
Gray Herbarium	777	31,300
Medical School	10,387	107,000
Dental School	129	2,800
Arnold Arboretum	1,447	41,000
Bussey Institution	1,697	26,700
Blue Hill Observatory	105	23,700
Total	92,834	2,100,200

Maps in sheets in the College Library, 32,200.

Broadsides, posters, programs, play-bills, leaflets, clippings, autographs, photographs, engravings, etc., are not included in the figures above, and it is impossible to give any enumeration of them. The collection of broadsides alone, American, English, French, etc., includes several thousand sheets.

The additions to the main collection have been :—

RECEIVED BY COLLEGE LIBRARY	1916-17	1917-18	1918-19	1919-20	1920-21
By purchase or exchange, vols. . .	12,778	10,737	10,005	17,576	26,437
“ “ “ “ pams. . .	4,960	9,781	3,618	3,217	7,077
By gift, vols.	26,889	14,157	24,737	12,127	14,784
“ “ pams.	14,365	26,201	32,077	17,444	24,876
By binding serials, vols.	2,601	2,602	1,936	2,009	2,156
Total volumes	42,268	27,496	36,678	31,712	43,377
“ pamphlets	19,325	35,982	35,695	20,661	31,953
Total received, vols. and pams.	61,593	63,478	72,373	52,373	75,330
Maps in sheets	287	681	360	783	103
Net growth (after making allowance for transfers, duplicates disposed of, etc.)	29,000	32,000	61,000	36,200	33,300

EXPENSES ON BOOK ACCOUNT FOR FIVE YEARS

	1916-17	1917-18	1918-19	1919-20	1920-21
Central Library :					
From book funds	\$24,743	\$26,582	\$32,928	\$40,315	\$55,810
From special gifts, etc.	15,761	6,479	7,605	7,045	6,965
Total	\$40,504	\$33,061	\$40,533	\$47,360	\$62,775
Special libraries	7,060	6,293	6,199	12,740	10,621
Total	\$47,564	\$39,354	\$46,732	\$60,100	\$73,396

SPECIAL LIBRARIES

The present extent of these forty-four libraries is as follows:—

In the Widener Building

Volumes
and Pamphlets

Bureau of Municipal Research	8,312
Business School	17,738
Child Memorial	6,024
Classics	5,540
Economics	2,448
French	2,675
German	1,746
Graduate Economics	477
Graduate History	658
History	7,344
Lowell Memorial	1,764
Mathematics	1,434
Sanskrit	967

Outside the Widener Building

Volumes
and Pamphlets

Students' Palaeontological Lab.	
<i>Museum.</i>	11
Phys. Geog. Lab. <i>do.</i>	306
Zoölogical Lab. <i>do.</i>	458
Economic Geology. <i>do.</i>	217
Plant Physiological Laboratory. <i>Botanical Museum.</i>	475
Astronomical Lab.	142
Philosophy. <i>Emerson.</i>	6,800
Social Ethics. <i>do.</i>	13,336
Semitic. <i>Semitic Museum.</i>	2,342
Germanic Museum	76
Mining and Metallurgy. <i>Rotch Lab.</i>	662
Music. <i>Music Building.</i>	3,518
Fine Arts. <i>Fogg Museum.</i>	2,827
Architecture. <i>Robinson.</i>	2,958
Landscape Arch. <i>do.</i>	6,287
Forestry. <i>Bussey Institution</i>	132
Preachers' Lib. <i>Wadsworth.</i>	118
Office of Medical Adviser. <i>do.</i>	41
Stillman Infirmary	206
Phillips Brooks House Lib.	500
Total, Special Libraries	137,046
Deduct for books on deposit from Central Library	2,754
	134,292

Outside the Widener Building

Education. <i>Lawrence.</i>	12,105
Bureau of Vocational Guidance. <i>do.</i>	853
Military Science and Tactics. <i>Wadsworth.</i>	432
Statistical Lab. <i>Massachusetts.</i>	247
Chemical Lab. <i>Boylston.</i>	15,893
Physical Lab. <i>Jefferson.</i>	1,205
Engineering. <i>Pierce.</i>	3,790
Sanitary Engineering. <i>do.</i>	209
Botanical Lab. <i>Museum.</i>	1,931
Geological Lab. <i>do.</i>	303
Mineralogical Lab. <i>do.</i>	1,539

CIRCULATION AND REFERENCE DEPARTMENT

The following table shows the use of books as recorded at the delivery desk and at the desks in the two larger reading rooms, but there is no way of showing the unrecorded use of books in the reading rooms and in the stack, and the temporary use of books in stalls and studies.

USE OF BOOKS	1916-17	1917-18	1918-19	1919-20	1920-21
Recorded at Loan Desk:					
1. Lent for home use	60,621	53,709	45,348	65,242	70,559
2. Reading room use.	54,233	27,181	22,173	21,013	26,376
3. Study use	1,598	1,420	1,604	2,134	2,241
4. Stall use	11,269	12,016	9,233	25,830	21,983
Total	127,721	94,326	78,358	114,219	121,159
Overnight use of Reference Books:					
General reading room	13,348	8,977	9,152	16,401	18,624
Lower reading room	5,421	5,977	2,844*	7,235	7,081

* Open only from January to June, 1919.

APPLETON CHAPEL AND PHILLIPS BROOKS HOUSE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The Chapel has had an uneventful year. Thirty-nine Sunday services have been held by ministers of nine different denominations. The average number of students in attendance, seated in a body south of the main aisle, has been 264 and of the audience as a whole 701. It is a new thing to hear students say that if they do not get to the Chapel early, they cannot expect to be seated on the student side. The resort to the daily service has been almost exactly that of last year.

When, twelve years ago, the Sunday service was transferred to the morning hour, a member of the Board of Preachers said, "You can never have successful service until you have a new chapel. The men are used to places of worship better fitted to express the dignity and beauty of religion."

It was answered that, with all the other needs of the University, we could hardly expect to get a new chapel so long as it could be said, "You have only a meager attendance. There is no obvious demand on the part of the University for the privilege of worship." It was felt that we must build up the service with the equipment which we had. Then we could ask for better equipment.

The dignity and beauty of a house of worship are indeed no substitute for the spirit of religion, but they are a great help in the cultivation of that spirit. One needs only to reflect upon the influence of the music which we now have. The quality of the organ, the training of the choir, the selection of the music, the spirit of the director, are in no small measure responsible for the success which we have achieved. Yet there is no part of the building which is so badly arranged as the choir. The director works under almost every conceivable disadvantage.

The clergymen who come here to preach often express surprise at the reception which their preaching meets, at the reverent spirit which obtains, at the religious atmosphere which the Chapel spreads about it, at the seriousness of their task as college ministers, at the openness of the student body to spiritual influence. This is the more true if they had been prejudiced against the University exactly on this point of its religion, and if they had distrusted the freedom from all constraint which here obtains. They almost invariably say, "If you only had worthier surround-

ings, if you only had the lesser adjuncts which are nevertheless so essential to the complete expression of the thing which you desire."

To all this must now be added the deep feeling of many that no memorial of the Harvard men who fell in the war could be more fitting than a chapel which should recall to the coming generation the things unseen but eternal for which these youths have given their lives. No memorial of them is really adequate save one which stands for the expression and perpetuation of their idealism and spirit of sacrifice, of their consecration of life and their glorifying of death. Without these spiritual elements all else that the University gives, whether for the bodies or the minds of men, will be given in vain. A chapel worthier of its own aims and more fitted to our needs would be the most appropriate reminder of these things and an assurance of their continuance among us. The Overseers' Committee appointed to visit the Chapel reported last summer recognizing this need.

At the opening of the college year the work of the Phillips Brooks House Association was explained to Freshmen and to members of the various graduate schools by means of receptions. The usual Christmas and Thanksgiving parties were held, as well as the Class Day Spread. Ten talks on the subject of religion were given to Freshmen on successive Monday evenings from September until Christmas. The Christian Association and the St. Paul's Society have held their usual meetings in the House. The former met 21 times, with two especially successful meetings, one addressed by Dr. Fosdick on "The Ministry" and the other by Rev. James G. Gilkey on "The Church." The Harvard Mission has continued the support of a member of the faculty of Robert College, Constantinople. Mr. C. E. Dickerson, '20, has filled that position during the year.

The social service work has shown the largest number of men engaged since the war, a total of 439 men having taken part in some form of the work. Nineteen free entertainments were given, 2 clothing collections held, and 1,042 books have been loaned to students from the Text Book Loan Library, in addition to 163 books from the Law Loan Library. Fifteen dinners at Thanksgiving and 20 dinners at Christmas were distributed to poor families in Cambridge.

Mr. George Wigglesworth, '74, has been reëlected a member of the Graduate Advisory Committee for a term of five years.

EDWARD C. MOORE, *Chairman.*

THE GRAY HERBARIUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — Within the limits of the academic year 1920–21, in addition to the regular staff, the following persons have been employed temporarily at the Gray Herbarium in special capacities: Mr. C. A. Weatherby chiefly in the further identification and organization of the fern-collection, Mr. J. Francis Macbride in the determination of plants of the Rocky Mountains and Pacific Slope, Professor J. P. Poole chiefly in photographic work and the distribution of *inserendae*, Dr. Harold St. John chiefly in field work, Dr. and Mrs. E. B. Payson in reorganization of the *Cruciferae* and distribution of *inserendae*, and Miss H. M. Shepard and Mrs. J. R. Moore as stenographers and clerical assistants.

The chief accessions of plants have been as follows:

I. *By gift, in exchange, or for identification:*

From the New York Botanical Garden, 1273 plants of Trinidad, collected by Dr. N. L. Britton and his assistants, 54 plants of Cuba, 68 plants of Tobago, 113 specimens of *Scrophulariaceae* collected and critically identified by Dr. F. W. Pennell, a specialist on this group, also 154 miscellaneous duplicates; from the United States National Herbarium, 162 specimens of ferns, 108 plants of Guatemala and Honduras collected by Dr. S. F. Blake, 179 plants of northern and western South America, 278 miscellaneous duplicates, and 27 admirably detailed photographs of plant-types; from the Missouri Botanical Garden, 231 plants chiefly from the central Mississippi valley; from Mr. I. Dörfler, 249 plants chiefly of Austria, Hungary, and the Balkan states, a collection of exceptional excellence including many plants of great rarity; from Brother Victorin of the Collège de Longueuil, 187 plants of the Province of Quebec; from Mr. W. N. Suksdorf, 386 plants of California, Montana, and Washington for verification; from the New York State Museum at Albany, 155 plants chiefly of New York State; from the Philippine Bureau of Science, 802 plants of the Philippine Islands; from Miss M. E. Priest, 93 plants of Newfoundland from Flower Cove on the Straits of Belle Isle; from Professor E. W. D. Holway, 99 plants of Bolivia and

Peru; from Prof. E. J. Grimes, 199 plants of Virginia for verification; from Mr. F. C. Hoehne of the Oswaldo Cruz Botanical Garden, 158 plants of Brazil; from Dr. Carl Skottsberg, 55 plants of Easter Island, a collection critically identified and representing a little known flora of exceptional interest from a phytogeographical standpoint; from Mr. I. N. Clokey, 245 miscellaneous plants of Colorado and 100 exact duplicates for use in continuing the *Exsiccatae Grayanae*; from the Royal Gardens at Kew, 282 plants collected in South Africa by Mr. Alexander Prior; from Dr. Thomas Barbour, 94 ferns collected in the Huachuca Mountains by Mr. W. W. Brown; from Mr. W. W. Jones, 179 plants chiefly from Arizona; from Mr. D. C. Peattie, 175 plants of the sand dunes of northern Indiana; from the New York State Agricultural College, 1031 plants of New York State; and from the New England Botanical Club, 441 plants from the herbarium of the late Carl Blomberg; from Mr. E. L. Dutton, 168 plants of Vermont.

II. *Acquired by purchase:*

From Professor H. Pittier, 730 plants of Venezuela; from Dr. R. Schlechter, 401 orchids from New Guinea, Celebes, and Sumatra, a collection including an exceptional number of plants new to science; from Professor M. E. Peck, 552 plants of Oregon; from Mr. T. S. Brandegee, 122 plants of Mexico collected by Dr. C. A. Purpus; from Mr. C. K. Schneider, 270 plants of China; from Dr. E. B. Payson, 600 plants of Idaho, Montana, and Wyoming; from Mr. W. N. Clute, 111 plants of the Painted Desert in Arizona.

III. *Received from field work done for the Gray Herbarium:*

From collections made in Nova Scotia by an exploring party under the direction of Professor Fernald, 16,614 plants; supplementary material from the journey of Dr. J. N. Rose to Ecuador, 110 plants; collected on Long Island by Dr. Harold St. John, 1305 plants; collected in Jamaica by Messrs. W. R. Maxon and E. P. Killip, 571 ferns and 653 phanerogams; collected in southern California by Mrs. J. M. Spencer, 804 plants; from the slopes of Mt. Chachani in Peru by Mr. and Mrs. F. E. Hinkley, 346 plants, and from near the Bolivian shore of Lake Titicaca, 123 plants collected by Mrs. Reid S. Shepard.

The number of specimens received from all sources has been 32,011. There have been added to the organized portion of the herbarium 14,815 sheets of mounted specimens, bringing the total number of sheets to 629,580. There have been added to the library

by purchase, exchange, or gift, 384 volumes and 392 pamphlets, bringing the total number of volumes to 18,965 and of pamphlets to 12,329. In the course of the year there have been four more issues of the Card Index of New Genera, Species, and Varieties of American Plants including 4580 cards and bringing the total number of cards in this important reference catalogue to 156,301.

During the year a large amount of field work was undertaken and yielded gratifying results. The expedition to Nova Scotia, rendered possible by gifts for the purpose from Messrs. John E. Thayer and Walter Deane of the Visiting Committee, as explained in the last report, was carried out under the experienced direction of Professor Fernald with the able assistance of Mr. Bayard Long of the Philadelphia Academy of Sciences and the coöperation of six skilful and discriminating amateur botanists. The expedition lasted about two and one-half months. The whole length of Nova Scotia was traversed and special attention was given to the siliceous areas in the southwestern part of the province. The main object was to determine the extent to which species of the southern coastal plain penetrate to Nova Scotia. The collection reached the large total of 16,614 sheets of specimens. It included no less than 110 species hitherto unreported from the Dominion of Canada and 230 not previously known in Nova Scotia. Of these additions to the flora of the Province some were species wholly new to science, but the majority proved to be plants of the Coastal Plain hitherto unknown north of Massachusetts and in some cases not previously recorded north of New Jersey. In view of the ready accessibility of Nova Scotia and the extent to which it had been previously visited by botanists, the intensive work of this group of close observers is truly notable both from the taxonomic standpoint and for the new light thrown upon interesting problems of plant-distribution.

Continuing their coöperative work on South America, the United States National Museum, the New York Botanical Garden, and the Gray Herbarium were able in April, 1920, to send an experienced collector, Mr. W. E. Broadway, to French Guiana, a country of great biological interest, offering serious difficulties and not previously worked by North American botanical establishments. During the year progress was made on the determination of the plants secured on earlier expeditions to British Guiana and Ecuador. The Jamaican collection, secured by Messrs. Maxon and Killip, has been received, amounting to more than a thousand

sheets of excellent material, discriminatingly selected, and particularly rich in ferns.

During the summer of 1920 Dr. Harold St. John collected for the Gray Herbarium at several points on Long Island, N. Y.

The reclassification of the library has been completed with the exception of the unbound pamphlets. At no time in its history has the library been so conveniently shelved, extensively bound, and fully catalogued. The most notable gifts received for the library during the year were handsome copies of the third edition of Catesby's "Natural History of Carolina, Florida and the Bahama Islands" and Jacquin's "Fragmenta Botanica," presented by Mr. W. D. Sohier, both being works of exceptional excellence and rarity. Mr. F. Tracy Hubbard gave to the library a full set of the publication which has appeared under the successive titles of "The American Forester," "Forestry and Irrigation," "Conservation," and "American Forestry," 23 volumes in all, a series important in its field of applied botany and now difficult to secure in complete sets.

The Gray Herbarium should have a larger staff. Its established position in American scientific research, the extent and value of its reference collections, and its unsurpassed material equipment are all such as to justify the employment of a considerably larger corps of workers. The particular need is of two or three young men of ability and preliminary botanical training to take intermediate positions and be gradually advanced as understudies for the older workers. Such promising young men have been secured from time to time, but as soon as they become moderately proficient they are drawn away to other establishments by salary offers much superior to present possibilities at the Gray Herbarium. Were the funds of the Gray Herbarium so augmented as to permit the employment of two or three assistants at salaries ranging from \$1500 to \$2500 this serious difficulty would be overcome. Could such added endowment be secured the scientific output of the establishment would be increased in a very gratifying manner, its carefully developed plant would be run more nearly in accord with its capacity, and — a matter of particular importance — proper understudies would be in training to carry forward with continuity the work of the older members of the staff as they reach retiring age.

The Visiting Committee once more issued its annual circular in the interests of the Herbarium. In return, gifts for present

use were received from seventy-five donors, whose names and contributions are recorded in the Treasurer's report.

One gift for further endowment was received, namely \$100 from Mr. Emile F. Williams, Secretary of the Visiting Committee, to be added at the request of the donor to the Gray Memorial Fund.

In the course of the year twenty-four scientific papers were published by the staff.

B. L. ROBINSON, *Curator*.

THE BOTANIC GARDENS

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Director I have the honor to submit my twelfth annual report on the Botanic Garden in Cambridge and the Botanic Garden in Cuba. This report covers the year ending June 30, 1921.

Specimens have been supplied to the Phanerogamic Laboratories, the School of Tropical Medicine, the Bussey Institution, Radcliffe College, the Summer School, the Zoölogical Department, and to the schools of Cambridge.

The increased cost of fuel and labor and the general advance in the prices of materials used by a botanic garden in the routine work of supplying students with living plants have given rise to a serious situation in our finances. The present income from invested funds is insufficient to meet the bills for fuel and labor, while every dollar spent on prudent upkeep means so much added to an unavoidable deficit. It was hoped that by closing the Memorial Range of houses for the winter and by excluding House 14 from the heating system, a substantial saving in the expenses of maintenance could be effected. A great saving in fuel was effected, in fact we cut our fuel consumption by about fifty per cent of normal, but this economy, of doubtful benefit to the institution, was insufficient to bring outgo within income.

The reports from the Cuban Garden are encouraging. The collections have been increased by gifts and purchases and now offer exceptional opportunities for research. Up to the present time this very valuable branch of our botanical department has not been used by students, but it is gratifying to be able to report that material for research work has been successfully forwarded by post and that critical specimens have been safely transmitted to Cambridge for use in the research laboratories.

The Director receives numerous inquiries from other institutions as to the possibility of coöperative research in tropical botany. Here we have a desirable opportunity to form useful and stimulating contacts, but the situation of the Cuban Garden and the present lack of accommodations for visiting scientists discourage coöperation. This is altogether to be regretted because the

garden is in the heart of a great sugar yielding area where intensive cultivation of tropical agricultural crops offers ideal opportunities for the study of the diseases of plants and animals and for influential research in tropical botany and agriculture.

On the Mulford Biological Exploration of the Amazon Basin we are represented by Dr. O. E. White of the Brooklyn Botanical Garden. Dr. White is to concentrate his attention on economic plants for the Bussey Institution and on orchids for the Botanic Garden in Cambridge. As the region to be explored is largely *terra incognita* from a botanical point of view, it is highly probable that many interesting novelties will be discovered and that to our economic collections specimens will be added that are now known only from fragments or from citations in literature.

OAKES AMES, *Director*.

THE BOTANICAL MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of presenting the following report on the condition of the Botanical Museum during the academic year 1920–21.

The Museum consists of four principal divisions: (1) the Economic collection, in exhibition cases, arranged for display, (2) the duplicate Economic specimens available for investigation, (3) the Ware Collection of Blaschka Glass Models of plants in flower, (4) the fossil plants.

The Ware Collection continues to be attractive to students and to the general public. The cases in which the specimens are displayed have been partly reconstructed and wholly refinished during the past year. The heavy expense attending this work has been defrayed by one of the original donors of the collection, Miss Mary Lee Ware of Boston.

This unique collection now on exhibition contains specimens illustrating 160 families of flowering plants, 540 genera, and 803 species. There are more than 3,200 analytical magnified details. The entire collection of models is the gift to Harvard University from Mrs. Elizabeth C. Ware and her daughter, Miss Mary Lee Ware, of Boston, as a memorial to the late Dr. Charles Eliot Ware, of the class of 1834.

Besides the specimens now exhibited in our Museum, there are more than twenty models and fifty anatomical details now remaining in the artist's studio, awaiting transportation to this country. It is unsafe to transport any of these specimens to our Museum, under existing conditions, especially as we cannot as yet secure their removal "in bond" to Boston. Up to the time of the war, the shipments were made direct to our nearest port, and then by the great courtesy of the Custom House officials of the Port of Boston were carried directly to the Museum in Cambridge, and were unpacked safely at the University. When these remaining specimens have been received, the Ware Collection will be practically complete.

It is thought desirable to supplement this collection by a display of glass models of grasses and sedges. A few models of these interesting groups of plants constructed by Mr. Blaschka are incorporated in the Ware Collection, and they serve admirably and

adequately to show the structural relations of the two orders. But there are certain other features presented by the two orders which it is believed will be extremely instructive to students and to the general public. It was pleasant to find that Mr. Blaschka was willing to prepare such models for our Museum. Miss Ware has expressed herself as willing to have such a supplementary collection made, provided all the funds for its construction and proper installation in a room adjoining her large collection can be obtained.

The new enterprise demands not only adequate funds, but also suitable specimens for the artist to employ in his modelling. The funds for the first half-year have already gone forward to Mr. Blaschka and he has begun his work.

Mr. Walter Deane, formerly President of the New England Botanical Club, an authority and an excellent botanical collector, has consented to aid in providing the artist with American material for the construction of the new models.

The economic collection has not received many additions during the year, but it has served well its purpose to answer the many questions arising in regard to the uses of plants. The cases contain hundreds of specimens well protected by special containers against insects and other injurious museum pests.

The store of unstudied material is large and awaits investigation. During the fiscal year '20-'21 the health of the Curator has been at times so much impaired that he has not been able to give much time to research. His aid, Mr. Louis C. Bierweiler, Assistant at the Museum has been untiring in his work, and has greatly relieved the Curator in the care of the cases. Moreover he has been active in the printing plant of the Museum, and has been able to supply the janitor and watchmen with an adequate number of descriptive leaflets and pamphlets for our visitors.

The collection of fossil plants remains under the care of Dr. Robert T. Jackson, and has been, as usual, accessible to investigators.

The Curator is happy to state that he has found the Chairman of the Overseers' Committee on the Botanical Museum, R. M. Saltonstall, Esq., sympathetic and helpful.

A friend of the Museum, who insists upon remaining anonymous, has provided for our modest current expenses the coming year. It is believed that by the exercise of strict economy the Museum may be able to close the fiscal year, as it did the last, without a deficit.

GEORGE LINCOLN GOODALE.

THE ARNOLD ARBORETUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit the following report on the progress and condition of the Arnold Arboretum during the year ending June 30, 1921.

The unusually mild winter during which a temperature of zero was recorded only twice at the Arboretum, followed by several days of summer temperature during March, forced into bloom several plants three or four weeks before their normal time of flowering. The hot March days were followed by severe frosts which destroyed flowers already open and injured a few flower-buds. The March frosts were followed by frosts in April and May, but these were not severe in the Arboretum and did less damage here than in other parts of the country, especially in the middle and southern Atlantic states. Thanks to the mild winter and the abundant rains of the autumn, many trees and shrubs have bloomed unusually well; the foliage on all trees has been abundant and well colored, and conifers and broad-leaved evergreens have not for a long time been in better health.

In July the Assistant Director left the Arboretum for a two years' journey in Australasia, India, and eastern and southern Africa. The object of this journey is to enable Mr. Wilson to become acquainted with the vegetation of regions before unknown to him, to bring the Arboretum into closer relations with botanical and forest establishments in the Southern Hemisphere, to become personally acquainted with the men who direct these establishments, and to obtain material for the herbarium and library of the Arboretum. During the past academic year Wilson after a short stay in England has visited all the Australian Provinces, Tasmania and the two islands of New Zealand. He has been well received by forest and other officials who have acted as his personal guides in his forest expeditions and have made this journey pleasant and profitable. With their assistance he has been able to send home a large amount of material which will greatly increase the importance and value of the Arboretum collections. Late in June he sailed for Singapore on his way to India which he reached on the 20th day of July.

The library contains 33,633 bound volumes, 7,400 pamphlets and 7,326 mounted and arranged photographs, 715 bound volumes, 400 pamphlets and 2,781 photographs having been added during the year.

During the year the herbarium has received larger accessions than in any previous year in its history, 12,186 specimens having been mounted and incorporated. Among the more valuable specimens added to the herbarium are several Chinese collections of 3,000 specimens, a collection of 622 plants of Formosa made by E. H. Wilson during his last journey in eastern Asia, 1,845 Philippine plants, 216 Himalayan plants, and 2,500 North American plants. A collection of 10,000 specimens of trees and shrubs cultivated in Europe made by the late H. Zabel, the well known Swiss dendrologist and superintendent of the Botanic Garden in Zurich, has been purchased during the year but has not yet been added to the herbarium. This collection contains the types of the large number of hybrid and other interesting plants described by Monsieur Zabel. During the year 14,776 duplicate specimens have been sent to twenty-two botanical establishments.

From its earliest days the Arboretum has not lost an opportunity to introduce from foreign countries trees and other plants which might increase the value of American forests and the beauty of American parks and gardens. Several hundred species have first been cultivated in this country at the Arboretum, and hundreds of thousands of plants raised in the Arboretum nurseries from these introductions have been widely distributed in most of the countries of the Northern Hemisphere. This introduction and distribution of new plants has been one of the important contributions made by the Arboretum to the welfare of the country. By the rulings of the Federal Horticultural Board of the Department of Agriculture it has been necessary to stop this work, for it is no longer possible to import the seeds of trees and shrubs or to import living plants unless they are subjected at Washington to a treatment which practically insures their death, or if plants survive the Washington inspection they must be placed under a quarantine which makes it impossible to use them for several years.

During the year 3,375 plants (including grafts and cuttings) and 265 packets of seeds have been distributed as follows: To the United States, 1,613 plants and 156 packets of seeds; to Canada, 49 plants and 11 packets of seeds; to Great Britain, 1,713 plants and 89 packets of seeds; to France, 9 packets of seeds. There have been received 2,688 plants and 86 packets of seeds as follows:

From the United States, 2,667 plants and 86 packets of seeds; from Canada, 15 plants; from Great Britain, 6 plants.

The instruction in dendrology has been given in the Arboretum by Assistant Professor J. G. Jack who from April to June held weekly field meetings attended by twelve students. Seven special students from the Bussey Institution worked in the Arboretum during the year; of these four were American, one a Philippine, one a Chinese, and one from Japan.

During the year the Arboretum has published a Monograph of Azaleas based on the material which has been gathered here for the purpose during the last ten years. In this publication the Old World species are described by Mr. Wilson who has seen them all, with one exception, growing wild, and the American species by Mr. Rehder, the curator of the herbarium. Three numbers of the Journal of the Arboretum and seventeen Bulletins of Popular Information were published during the year.

Without the interest and generosity of the members of the Committee appointed by the Overseers to visit the Arboretum and of other friends of the institution it would not be possible to maintain this department of the University and to carry on its scientific activities. To them is due the thanks of all students of dendrology and of all lovers of trees.

C. S. SARGENT, *Director*.

THE CHEMICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I am glad to report that on my return to the Chemical Laboratory after an absence of three years I found it, thanks largely to the zeal and ability of Mr. Boughton, the Assistant Director, in as good condition as the infirmities and inadequacies of Boylston Hall and the difficulties of wartime administration permitted.

During the past year there has been a slight decrease in the enrolment in the more elementary courses, but an almost equivalent increase in the research courses in chemistry, so that the total number of whole course enrolments in laboratory courses was 784, as compared with 807 during the previous year. The marked increase in the number of men taking elementary organic chemistry, which has occurred in the previous year or two, has continued. This increase is the result in part of the development of the dye-stuff industry in this country, and in part of the requirement of this subject for entrance to medical schools.

The only important alteration in the building, other than the usual repairs, has been to partition off a portion of the elementary laboratory, and install there the necessary equipment for laboratory work in organic chemistry. In this way the increased enrolment in this subject, mentioned above, has been taken care of.

Professor Michael continued his studies on the mechanism of organic rearrangements.

Professor Richards and Professor Baxter, in collaboration with graduate students, continued their studies on atomic weights, studies which have brought much honor to Harvard and to American chemistry. Professor Richards with the help of H. S. King continued his work on the separation of lead isotopes. The work on the atomic weight of gallium, conducted with the assistance of W. M. Craig, in spite of unexpected difficulties, has progressed, and probably will be finished during the coming year. With the collaboration of J. Russell, he completed thermochemical investigations of thallium amalgams, obtaining results which confirm and amplify the electrochemical results obtained at the Gibbs Laboratory by Assistant Professor J. B. Conant five years ago. With O. C. Bridgeman, he continued the study of the heat of hydrolysis of esters. Preliminary results show that the absorption of heat is greater than had been generally supposed. The investigation is being continued. With the help of E. P. R. Særens he

began the study of the compressibility of the halides of the rarer alkali metals, as well as of the metals of the alkaline earths. With the assistance of T. Dunham, Jr., the effect of varying hydrogen ion concentration on metallic electrode potentials was studied, leading to a systematic study of junction potentials in general. Further progress was made, with the assistance of Miss E. H. Lanman, a graduate student of Radcliffe College, in the purification of rubidium salts, preparatory to the determination of the atomic weight. She made, at the same time, a systematic study of the efficiency of fractional crystallization. Dr. E. K. Carver, Rockefeller Research Fellow at the Wolcott Gibbs Memorial Laboratory, continued his independent investigations of the adsorption of vapors on glass surfaces.

Professor Kohler studied with B. L. Souther the relation between cyanogen compounds and pyridine derivatives; with N. L. Drake and A. McB. Kinney the mechanism of catalytic hydrogenation; with R. W. Helmkamp and C. S. Dewey the factors that influence ring formation; with C. D. Lowry enolization in hydropyridine derivatives; with P. Allen, Jr. the mode of addition to unsaturated ketones; with L. F. Small intramolecular condensation; and with D. G. Foster unsaturated nitro ketones.

Professor Baxter analyzed the pure silver used as a standard in atomic weight comparisons. Spectrograms indicated only traces of calcium as impurity, and wet analysis showed the proportion of this impurity to be not over four hundred-thousandths of a per cent. With P. F. Weatherill he continued the preparation and analysis of pure silicon tetrachloride and silicon tetrabromide. Both of these investigations point to a value for the atomic weight of silicon of 28.09 in striking contrast to the older value 28.3; with A. F. Scott he purified and analyzed boron trichloride, obtaining an atomic weight of boron computed from his results of 10.84, a value distinctly lower than the one in present use; with M. J. Dorcas he investigated arsenic trichloride and obtained by analysis of the pure material a value for the atomic weight of arsenic slightly lower than the current value; with F. A. Hilton, Jr. he undertook to repeat the comparison of terrestrial and meteoric nickel by the analysis of nickel chloride, in order to confirm the conclusion previously reached by Dr. Parsons, through the analysis of nickel oxide, that the two are identical. The extraction and purification of the meteoric material, together with that of the terrestrial material for comparison, occupied all his available time. Muneo Tani completed the analysis of lanthanum tri-

chloride which he had begun in the previous year. He found the atomic weight of lanthanum to be 138.91, a value nearly 0.10 of a unit less than the one in current use.

Professor Henderson continued his studies on the physico-chemical equilibria in the blood.

I studied with R. L. Dodge the adsorption of hydrogen upon iron at elevated temperatures, in order to correlate this phenomenon with the remarkable catalytic effect which iron is known to exert on the combination of nitrogen and hydrogen in the synthesis of ammonia by means of the Haber process. In this work we have received very generous financial support from the United States Fixed Nitrogen Research Laboratory of Washington. With W. E. Vail I have been studying a similar problem connected with the catalytic oxidation of carbon monoxide by the oxygen of the air; and with A. W. Phillips the effect of sulfuric acid on the oxidation of carbon monoxide by iodic acid in solution.

Associate Professor Forbes continued the investigation of reactions between thiosulfates and arsenic compounds. In collaboration with E. B. Damon he developed a new method for measuring thermal diffusion of electrolytes. During the summer session, with J. C. Woodhouse he investigated the relation between hydrogen ion concentration and the velocity of the photochemical reaction between quinine and chromic acid.

Assistant Professor Jones acted as Consulting Chemist to the United States Tariff Commission in the framing of the portions of the tariff bill now pending before Congress which deal with chemicals. With T. W. Abbot he continued an investigation of tartaric acid for the purpose of securing fundamental, scientific data useful in the manufacture of this acid; and with H. M. Burlage he started an investigation of the electrolytic dissociation of barium chloride solutions.

Assistant Professor Conant, with a number of students, continued his study of the addition reactions of the phosphorus halides. With V. H. Wallingford he investigated the behavior of alpha chloro ketones with a number of phosphorus halides and improved the methods of preparing several of these latter substances; with B. B. Coyne the mechanism of the formation of unsaturated phosphonic acids from certain ketones and phosphorus trichloride was established; with H. S. Holt work on the addition of phosphenyl chloride to unsaturated ketones was completed; with S. S. Gandheker he made a comparative study of the 1, 2 and 1, 4 addition of a number of phosphorus halides containing the

alkoxyl group; with E. L. Jackson the study of the addition of hypohalogen acids to unsaturated compounds was continued, and an investigation on certain reactions of beta halogen phosphonic acids was started; with J. B. S. Braverman diphenyl chlorophosphine was prepared and shown to combine with unsaturated ketones in the 1, 4 position; with W. R. Kirner a series of new chloro alkyl sulfides for a study of the rates of reaction of similarly related halogen compounds was prepared; with J. B. Segur, also in connection with a problem on the reactivity of halogen compounds, a method of preparing gamma halogen ketones was devised, and a gamma chloro ketone was synthesized for the first time; with O. R. Quayle a study was made of the preparation of monochlorohydrine, dichlorohydrine, and dichloro-acetone, and of the action of metallic silver on diiodo-acetone; with H. H. R. Thompson the oxidation of normal butyl and isobutyl alcohols to the corresponding acids was investigated; with H. M. Kahn a preliminary study of the oxidation-reduction potentials of a number of vat dyes and related substances was made; it was shown that the electrochemistry of these substances is parallel to that of inorganic substances and may be expressed by the same mathematical formulae.

Dr. Hall made a search for a suitable solvent for Bridgman's black phosphorus, and conducted a preliminary study of the vaporization of mercury, with a view to its separation into isotopic fractions. With W. T. Selg he studied the chemical properties of black phosphorus, particularly its reactions with salt solutions.

Professor Richards received another grant of \$3000 from the Carnegie Institution of Washington and a further generous grant from an anonymous benefactor. Both grants may be used for apparatus and expert assistance, but not for such purposes as heating, repairs, or insurance. Therefore the Gibbs Laboratory now inevitably incurs an annual deficit, since the originally adequate fund provided by those who endowed the building in 1912 is insufficient to meet the enormously increased cost of these items.

During the year the work of Assistant Professor Conant was facilitated by two grants from the Cyrus M. Warren Fund of the American Academy of Arts and Sciences, one a grant of \$250 which was used for the purchase of a potentiometer, and the other of \$200 which was used in partially defraying the expenses of preparing a large quantity of phosphenyl chloride.

ARTHUR B. LAMB, *Director.*

THE JEFFERSON PHYSICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The total number of students working in this Laboratory during the current year was somewhat larger than during 1919–20, but the number of graduates engaged in research showed no increase. In the latter class there were six students, four under the direction of Professor Duane devoted themselves to problems connected with X-Rays, two worked with Professor Davis in the field of Heat. The research activity of the Laboratory, however, is never confined to the labors of the candidates for the doctor's degree; as in the past, nearly all the teaching staff have been engaged on original problems, experimental and theoretical, while as guests of the Laboratory Dr. Paine, National Research Fellow, has continued his measurements on free-air humidities, and Professor Hersey of the Institute of Technology has investigated the effect of pressure on the viscosity of oils.

It has been our policy to offer the facilities of the Laboratory to investigators in the employ of the U. S. Government, whenever it has been possible to do so without prejudice to academic activities. During the past year this type of work has been represented by a study of the compressibility of steel, carried on under the direction of Professor Bridgman for the authorities at the Watertown Arsenal, and by the continuation of a research by Mr. Dunbar under the direction of Professor Davis. The latter study is concerned with the vapor pressures and compositions of the liquid and gaseous phases in equilibrium at a given temperature in mixtures of nitrogen and methane, and is important because the majority of helium-bearing gases have nitrogen and methane as their chief constituents; the separation of helium therefore involves as its first and fundamental step the separation of methane from nitrogen.

The weekly meetings of the Physical Colloquium constitute an important item in the list of our activities; they continue to attract not only members of other Departments, but also visitors from neighboring institutions. A number of public lectures were given during the spring on Topics in Physics of general interest; it is proposed to continue the series during the coming year.

At the end of the academic year Professor E. H. Hall retired. The members of the Department, in expressing their high appreciation of the value of his services to teaching and research during more than thirty years, earnestly hope that he may long continue to work among them in this Laboratory, to the end that they may profit by his experience and may be stimulated by his example.

THEODORE LYMAN, *Director.*

THE CRUFT LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — During the year 1920–1921, there were 94 registrations in courses given at the Cruft Laboratory. These registrations included the names of 36 different students, about half of whom were in the School of Arts and Sciences and half in the School of Engineering. In both schools about 25 were graduate students, among whom were one Army officer and four Naval officers detailed by the U. S. Government.

Researches were carried on by graduate students as follows: E. J. Baldes, radio filters and compensators; P. P. Coggins, mercury-tube oscillators; L. M. Hull, vacuum power-tube oscillators; Phillip Machanik, construction and study of an artificial line equivalent to 1000 miles of South African Telephone conductor; D. P. Randall, vacuum-tube detectors and amplifiers; Captain E. C. Seeds, U. S. A., researches in connection with coast defence and secret radiotelegraphy; H. J. McLeod, resistance of condensers.

Among these researches, that of Mr. H. J. McLeod, who is Professor of Physics at the University of Alberta and who was on leave of absence for study at Harvard, constituted the basis of his thesis for a Ph.D. degree that was awarded in June. The work of Mr. Machanik, a telephone engineer of the Union Government of South Africa on leave, was also successful in yielding important information that may be applied directly to the telephone systems of his government.

The researches of Professor Chaffee, in coöperation with Professor Bovie of the Harvard Medical School, have yielded interesting results as to the response of the eye to optical and electrical stimulus, and have been embodied in various reports before scientific societies. The work is still under way. Professor Chaffee has also continued researches on vacuum-tube phenomena, and, in coöperation with Mr. R. F. Field and others, has made important progress in the field of secret radiotelegraphy.

Professor Pierce has completed designs of a government hydrophone station, which is now being installed, and has made modifications in electric compensators for use as a part of the

hydrophone equipment on Naval vessels. His book on "Electric Oscillations and Electric Waves" has been published and is used as a text in Physics 4*a*, 4*b*, and 4*c*, and in Engineering 226.

The new four year program in Electric Communication Engineering in the Engineering School was initiated at the beginning of the year, and seems to conform to the needs of a serious body of students, and to an active demand for men grounded in mathematical physics and the principles of electric communication to engage in telegraph, telephone and electric wave development. This program required the addition to the curriculum of three new half courses, Engineering 224, 225, and 226, which were taken by a considerable number of students.

G. W. PIERCE, *Director*.

THE PSYCHOLOGICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The teaching staff has been augmented by the appointment of Professor William McDougall, who has conducted several courses which had been omitted for some years. It is now possible for the Department to give a full year's introductory instruction, consisting of a half course by Professor McDougall, followed by a half course by Professor Langfeld. Owing to the new rules for distribution the attendance in the introductory courses has decreased, but the number of students in the middle group and advanced courses has either remained the same or has increased.

In experimental comparative psychology Professor McDougall and a group of students have been working upon a problem of acquired characteristics in the white rat.

In experimental human psychology three students obtained their Ph.D. degree. Dr. W. M. Marston's thesis described experiments on the psycho-physiology of deception. Dr. H. L. Harley's research was upon a problem of monotony and fatigue with special reference to industrial conditions and the selection of industrial personnel. Dr. J. P. Hettwer investigated the various factors of the conditioned reflex. Dr. Troland has continued his work on vision and has supervised a research by Mr. C. H. Langford upon chromatic luminosity in fatigue and one by Mr. C. Clark upon retinal rivalry. Mr. G. Allport devised methods for the measurement of personality. Miss P. Allen started an investigation on the methods of measuring the emotions. Mr. W. G. Currie analyzed the phenomenon of cross-rhythm in music. Miss K. Day continued her work upon color preference and the relation of color to moods. Mr. H. R. de Silva devised tests for mental measurements. Mr. C. Goldthwait commenced an analysis of some of the factors in learning telegraphy. Miss A. Gould investigated the color preference of school children. Miss B. Jones made a study of character analysis. Mr. K. Lanouette continued his research on the relation of word reactions to emotions and sentiments. Mr. S. Matz examined the different appeals of headlines in advertising. Mr. R. M. Simpson began a problem upon creative imagination. Dr. Y. Tang worked upon a phase of

the reaction time experiment. Mr. I. Whittemore commenced a research on social factors in industry.

In experimental educational psychology under the direction of Professor Dearborn group intelligence tests were applied to approximately 15,000 school children and two investigations involving these data were begun during the year. Mr. Godfrey Dewey has made an investigation of methods of brief handwriting, and Miss Lorna Hodgkinson has worked on the standardization of performance tests for use in a study of the feeble-minded.

HERBERT S. LANGFELD, *Director.*

THE OBSERVATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The staff of the Astronomical Observatory has suffered serious loss in recent years. Following the death of Professor Pickering, the late Director, in 1919, the Observatory lost two of its members in 1920, Miss Selina C. Bond and Professor Arthur Searle. Miss Bond was the daughter of the first director of the Observatory and an assistant under later directors. Professor Searle was a member of the Observatory for more than forty years and for many years Phillips Professor of Astronomy.

Dr. Harlow Shapley, formerly of the Mount Wilson Observatory, California, was called to this Observatory during the past year, as Observer. He has carried on studies of variable stars, and has made experiments on the measurement of the colors of stars. He finds that cluster type variables exist in the Small Magellanic Cloud. This result is of importance in estimating the distances of globular clusters and in determining the scale of the Galactic System, as it helps to establish the connection between the long period and the short period Cepheid variables, which have been used in his photometric methods of determining great distances.

Dr. Shapley and Miss Cannon are engaged in making a discussion of the distribution of the stars of different spectral types and magnitudes, which occur in the Henry Draper Catalogue.

A new line of work of large extent and of much significance in studies of the structure of the stellar system, and one specially suited to the equipment of the Observatory, is being opened up by the investigations of stellar distances. Several years ago, from a study of Harvard plates, Dr. Shapley found that very good estimates of the distances of stars could be obtained from spectra made with objective prisms. His present association with the Observatory has permitted the further study of this problem. The preliminary results are highly satisfactory. In this research, the value of an observing station in the southern hemisphere is demonstrated. Nearly all of the observatories where stellar distances are measured are located in the northern hemisphere, and the distances of southern stars, as a consequence, are little known. There has, accordingly, been a troublesome incompleteness in the study of the

distribution of stars in space. It now appears probable that the Harvard Observatory will be able to fill the need for the distances of southern stars, chiefly by the use of photographs already existing in the Harvard photographic collection.

The systematic photographic survey of the sky for the discovery of new objects of interest has been continued during the year, and two new stars have been discovered by Miss Woods on photographs of the Milky Way. In addition, a large number of new variable stars have been found. Lists of sixty-seven such objects have been published in Circulars 224 and 225, discovered by Misses Cannon, Applegate, Harwood, Mackie, Walker, and Woods.

The astronomical fellowships for women have been filled by Mrs. Mary Applegate Beach and by Miss A. Grace Cook. Mrs. Beach made photographic observations of variable stars. Miss Cook of Stowmarket, England, was engaged in the observation of meteors. This is the first time that the fellowship has been awarded to an English woman.

Dr. Joel H. Metcalf is still engaged in his study of large proper motion with the "Blink" comparator.

Good progress has been made in publication, especially of the Henry Draper Catalogue. Friends of the Observatory have contributed largely to this result. Through the generosity of Mr. and Mrs. C. W. Elmer, an offer of a thousand dollars was made by The American Association of Variable Star Observers to hasten the publication of the Catalogue, with the condition that an equal amount should be received from some other source. This condition was promptly met by Mrs. James R. Jewett, who, in addition, has generously offered to defray the expense of the final volume, H. A. 99, the ninth volume of the Catalogue. This assures the prompt appearance of the remaining volumes.

HENRY DRAPER MEMORIAL

From an examination of the plates of the Henry Draper Memorial, twenty-seven stars having bright lines in their spectra have been discovered by Miss Cannon, sixteen of which are new variable stars. Two new double stars were found by means of their spectra, and six more of the uncommon stars of Class R.

A special study has also been made by Miss Cannon of the Large Magellanic Cloud. The number of objects having bright lines in their spectra in this region has been increased from forty-eight to sixty-one. The stars of Class O in this Cloud, thirty-three in all, comprise nearly one third of the total number now

known to exist in all parts of the sky. Some of them are of the fourteenth magnitude, or three magnitudes fainter than any so far known outside of this Cloud. Five additional stars of the P Cygni type were also found in this survey, the faintest of which is of magnitude 13.2. Numerous stars whose spectra are of Class B, some of which are as faint as the eleventh magnitude, exist in this Cloud.

The spectra of nine variable stars in the Large Cloud were found to belong to Classes from K5 to Mc. While the light curves of these stars have not yet been determined, at least five of them appear to be Cepheids.

A similar study of the Small Magellanic Cloud was made with the result that only one new gaseous nebula was found, making a total of three objects having spectra containing bright lines.

The supervision by Miss Cannon of the printing of the Henry Draper Catalogue has occupied considerable time.

The number of the photographs of the stars made at Cambridge by Professor King or under his direction during the year was 4,427. The total number of plates made was 5,091. The number of successful photographs taken for the position of the Moon was 39. This work was discontinued in April. Plates were also made of Uranus and Neptune, and for the detection of Planet O, according to data furnished by Professor W. H. Pickering.

The work with the 8-inch Draper Telescope, by means of out-of-focus images, for photo-visual magnitudes of bright stars and planets, has been continued. A preliminary reduction of these observations gives the photo-visual magnitudes for forty-four stars, and shows that the color value of this system is slightly toward the red end of the spectrum as compared with the photometric magnitudes of H. A. 50. Many measures of the photographic magnitudes of the bright planets have also been made. Photographs of the brighter asteroids, when near opposition, have also been taken.

Plates received from Arequipa, which were taken for the photo-visual magnitudes of southern stars, have been measured and partly reduced.

The systematic tests of plates and standard lamps have been continued.

BOYDEN DEPARTMENT

Arequipa Station. — At the end of September, 1920, Mr. F. E. Hinkley, who had been in charge of the Station, was obliged for personal reasons to resign his position and return to the United

States. During the past year, therefore, the Station has been in charge of Señor J. E. Muñiz, who has been the only assistant. He has taken general care of the buildings and equipment, made regular meteorological observations, and carried on photographic work with a portion of the instruments. During the past year he secured altogether 1,214 photographs of the sky, 568 of which were made with the 10-inch Metcalf telescope for the determination of stellar magnitudes.

The stellar photographs obtained at Arequipa in the future as in the past will doubtless continue to play an important part in the plans of the Observatory, and it is hoped that the Station may be placed again on a more efficient basis during the coming year.

Mandeville Station. — The Mandeville Station remains under the direction of Professor W. H. Pickering, who has continued his observations of the Moon and planets. A careful, but unsuccessful, search was made for the suspected transneptunian Planet O, on plates made at Cambridge with the 16-inch Metcalf Telescope. The Station was temporarily closed in April and Professor Pickering left Jamaica for a year's rest and study in Europe, having been granted a sabbatical vacation by the Corporation.

PHOTOGRAPHIC MAGNITUDES

The taking and measurement of series plates for the purpose of obtaining the brightness of stars in all parts of the sky on the scale of the North Polar Sequence has been continued under the direction of Miss Leavitt. The number of such plates taken has been smaller than usual, but their quality has been exceptionally good. With the 16-inch Metcalf Telescope at Cambridge, nine series were taken with blue and sixteen series with yellow light, to be used for photographic and photovisual magnitudes, respectively. The number of plates in a series is usually twelve. The northern sky is now so far covered with this instrument that it is usually possible to obtain the approximate magnitude of any star north of declination -15° without much delay. The process of covering the southern sky with the 10-inch Metcalf Telescope at Arequipa is somewhat more than two-thirds completed. The numbers of series taken for photographic and photovisual magnitudes were thirty-one and thirty-four, respectively. About 18,000 measures have been made on series plates, mainly for sequences of stars in the southern heavens. We now have magnitudes on file for about 35,000 stars.

As usual, many requests have been received for magnitudes of particular objects. The observation of variable stars and novae has also continued to be an important activity in this department. The number of such observations has been about 3,000.

VARIABLE STARS

Visual observations of variable stars continue to be an important part of the working program. Mr. Campbell has continued in charge of this department, attending to the correspondence with Variable Star Observers and others outside the Observatory and preparing the monthly Bulletin which keeps observers informed of the stars which require most attention. He has also secured observations with the 12-inch and 15-inch telescopes, when especially needed. Nearly 1,200 estimates of the variables, chiefly during their faint phases, have been made, and 10,824 settings with the photometers attached to these telescopes.

Considerable time has been given to the observation of asteroids, for the detection of variability, and the determination of periods. The photometric settings were 5,662, on eight asteroids, of which Melpomene and Victoria appear to be certainly variable.

Five eclipses of Jupiter's satellites were observed. Special attention has been given to eclipsing variables and to some of the more interesting irregular variables.

The number of observations contributed to the Observatory by professional and amateur astronomers is the largest ever received, 24,018. Of these, 17,325 were communicated by The American Association of Variable Star Observers. Observations of southern variables by Dr. J. M. Baldwin, of Victoria, Australia, and by Mr. J. F. Skjellerup, of South Africa, are of great value. Professor Mitchell, Director of the McCormick Observatory, has continued to furnish observations of the variables when very faint. The detailed list of contributors is as follows:

J. M. Baldwin, 2913; L. C. Peltier, 1889; G. B. Lacchini, 1677; J. F. Skjellerup, 1527; N. V. Ginori, 1253; C. Y. McAteer, 1129; H. C. Bancroft, Jr., 796; R. G. Chandra, 759; The French Variable Star Association, 698; McCormick Observatory, 696; T. C. H. Bouton, 645; Ed. de Perrot, 612; G. Merton, 524; I. Yamamoto, 495; S. L. Rhorer, 467; W. H. F. Waterfield, 427; W. T. Olcott, 423; A. Bemporad, 415; D. B. Pickering, 382; C. S. Mundt, 375; A. S. Young, 350; Ed. Janczewski, 334; J. E. G. Yalden, 283; F. J. Carr, 254; A. W. Long, 225; J. Ellsworth, 215; E. W. Clement, 187; C. E. Barns, 174; C. C. Godfrey, 160; B. H.

Dawson, 150; P. S. Watson, 145; M. J. Jordan, 132; D. Potter, 125; S. K. Proctor, 122; A. E. Schwartz, 118; K. Reesinck, 118; G. C. Waldo, Jr., 115; M. E. Morris, 105; T. S. Kimball, 102; S. C. Hunter, 102. Besides these, 1784 observations were communicated by forty-eight observers, each of whom contributed less than 100.

The discussion of long period variables has been carried forward and considerable data for maxima and minima, as well as for light curves, are available. Predicted dates of maxima and minima continue to be made and appear to satisfy a real need.

CONSTRUCTION AND EQUIPMENT

The plant and equipment have remained in charge of Professor Gerrish, who has continued to act as adviser in matters pertaining to engineering, and has also served as business executive.

An electrically driven vacuum apparatus has been installed in connection with the 16-inch Metcalf Telescope for springing photographic plates to a spherical curvature while in the telescope.

Indicating apparatus for the two-foot reflector has been designed and is under construction, by which the position of the telescope may be read from the observing deck above the instrument.

A simple instrument known as the Pole Finder has been devised, by which the position of the celestial Pole may be determined directly, and with moderate accuracy. The instrument is in two forms: one in which the eye is used unaided by optical devices; the other in which a small telescope serves to increase the accuracy of the determination.

A new visual method has been developed for adjusting the polar axis of an equatorial. A single adjustment, based upon two observations of Polaris, brings the axis accurately upon the Pole. Circumpolar stars are particularly advantageous for this purpose, affording a maximum degree of accuracy in both coördinates, but, owing to the difficulty of utilizing visual observations, their use hitherto has been confined almost entirely to photographic methods in which a large number of successive adjustments are required.

MISCELLANEOUS

Phillips Library. — Nine hundred and forty volumes and pamphlets have been added to the Library during the year, making the total number at the present date 58,156.

Telegraphic Announcements. — This Observatory has continued to act as the American centre of the International Astronomical Union for the distribution of astronomical news, both domestic and foreign. During the year seventeen telegraphic announcements were made. Cablegrams from any part of North or South America should be addressed to Observatory, Boston, and telegrams, to Harvard College Observatory, Cambridge, Mass. Twenty-seven Bulletins have been issued, making 758 in all. These Bulletins in general supplement the telegraphic service. They serve for the announcement of new stars, comets, variable stars, and any other important astronomical news.

Publications. — The following Annals have been published during the year: — **81**, No. 5, Photographic Determinations of the Position of the Moon; **83**, No. 5, Observations and Investigations made at the Blue Hill Meteorological Observatory in the year 1920; and **95**, The Henry Draper Catalogue, 12^h, 13^h, and 14^h. **96**, 15^h and 16^h of The Henry Draper Catalogue, has been printed and is ready to send out, and **97**, 17^h and 18^h of the same Catalogue, is all in type. Five Circulars have been issued, as follows:

- 222. Predicted Maxima and Minima in 1921 of Variable Stars. December 15, 1920.
- 223. Observations of Saturn's Rings. January 3, 1921.
- 224. Stars Having Peculiar Spectra. 16 New Variable Stars. March 23, 1921.
- 225. Fifty-one New Variable Stars. May 2, 1921.
- 226. On the Relation of Spectral Type to Magnitude. July 30, 1921.

S. I. BAILEY, *Acting Director.*

THE BLUE HILL OBSERVATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The year has been one of steady and progressive work at Blue Hill Observatory. All routine observational work was performed on schedule time and there has been no break in the continuity of the records. These data of pressure, temperature, humidity, wind direction and velocity, sunshine, cloud motion and direction, night cloudiness, precipitation, and certain seasonal phenomena now extend over 36 years and I think are without equal in our country.

Meteorologically speaking, the year was decidedly abnormal. The month of July, for example, was not only the wettest July but the wettest month of any name since observations began. And there is good ground for regarding it as the wettest month in a century. This excess of rain is the more noteworthy since to the north, west, and south of this section of the Coast, rainfall was deficient. The year was remarkable over the Northern Hemisphere — droughts and high temperatures prevailing at some places while at others, records were broken for rainfall and low temperatures.

The equipment of the Observatory is fairly good and all instruments are in order. The building needs some repairs, and when funds are available certain alterations must be made. The library has now outgrown the space originally provided.

The staff is larger than in previous years, the force proper being augmented by two research investigators, Dr. George Porter Paine and Dr. Willard J. Fisher. Dr. Paine is working on the behavior of water vapor in the free air, as is the Director, but from a different point of attack. Dr. Fisher has studied certain Low Sun Phenomena and his results, submitted in advance of publication to the leading astronomers of the country, have met with commendation. The Director has continued his work on absolute humidity, cloud motion, and revised units. He has published tables of saturation weights and pressures; also a paper on "Symbols in Science." He has devised a suitable hygrograph for use in hospitals; and surgeons may now readily determine the true moisture content of the air in operating rooms and surgical wards.

The financial condition of the Observatory, while somewhat improved, still remains unsatisfactory. The endowment has always been inadequate. The Board of Visitors has long contemplated a "drive" to bring the endowment to such a sum that the income would meet necessary expenses; but action has been deferred in order that the larger and more pressing needs of the University might have the right of way.

The budget submitted in 1920 called for \$9,652.58. The actual expenses for the year amounted to \$9,158.83. The expenses have been kept to a minimum. The total income for the year was \$6,262.64 consisting of endowment income \$4,762.64 and a gift of \$1,500 from Mrs. Henry Parkman, Jr. Mr. Livingston Davis doubled his original contribution to the Harvard Endowment Fund, restricting the additional sum for the use of the Observatory. Mr. Henry Parkman, Jr. did likewise.

A budget for the coming year is submitted on a separate sheet. There are no increases in salaries and wages, nor in most of the operating expenses.

ALEXANDER McADIE, *Director.*

BUDGET FOR YEAR ENDING JUNE 30, 1922

Combined salaries and wages (no increase).....	\$7,345.00
Equipment and supplies.....	305.00
Stationery, postage, etc.....	115.00
Books.....	150.00
Freight and express.....	100.00
Laundry.....	30.00
Binding.....	100.00
Sundries.....	20.00
Repairs to building.....	250.00
Caretaking, operating expenses.....	850.00
University charges, insurance.....	110.00
	<hr/>
	\$9,375.00

(About \$277.58 less than 1921)

THE MUSEUM OF COMPARATIVE ZOÖLOGY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — During the Academic year 1920-21 most of the instruction and the facilities for research in Zoölogy, Geology, and Geography offered in Harvard University and in Radcliffe College were given in the Lecture Rooms and Laboratories of the Museum.

In Zoölogy fifteen courses or half-courses were taken by 395 students in Harvard University and eleven courses or half-courses were taken by 90 students in Radcliffe College.

In 1919-20 these courses and students were:

Harvard: — 16 courses, 317 students.

Radcliffe: — 7 courses, 88 students.

In Geology and Geography twenty-three courses or half-courses were taken by 523 students in Harvard University and six courses or half-courses were taken by 67 students in Radcliffe College.

In 1919-20 these courses and students were:

Harvard: — 30 courses, 504 students.

Radcliffe: — 8 courses, 126 students.

Through the kind interest of Professor Theodore Lyman, Dr. G. M. Allen was enabled to work for two weeks among the Uinta mountains, Utah, where he secured small series of several desirable mammals and birds.

In furtherance of his ornithological studies and in the interest of the Museum collections, Dr. John C. Phillips sent Mr. James L. Peters to Argentina. Mr. Peters completed a year's field-work in June, 1921, and his collections thus far received comprise about 200 skins and skulls of small mammals, 1,250 bird skins, and a series of reptiles and amphibians. Dr. Phillips also coöperated with the U. S. Biological Survey in the Survey's field-work in Alberta and Saskatchewan, whereby the Museum has received 186 skins and skulls of mammals and 483 skins of birds.

Working in a Pleistocene deposit near Palm Beach, Florida, Dr. Thomas Barbour secured the remains of many vertebrates, the more striking being those of two species of elephant and a very large chelonian.

Mr. E. R. Dunn, owing to the generosity of Dr. Thomas Barbour, spent several weeks in field-work in Costa Rica. He secured a large and interesting series of reptiles and amphibians, and several specimens of two species of *Peripatus*.

During June and July, Dr. R. V. Chamberlin resumed his field-work in Utah, and secured a large number of arachnids and myriopods; these, with those taken in former years, make the Museum's collections of Arachnida and Myriopoda from western North America the largest extant.

The exploration of the Gulf of Maine which the U. S. Bureau of Fisheries and the Museum have carried on in coöperation for the past ten years, under the direction of Dr. H. B. Bigelow, was continued, and during December, 1920, January and March, 1921, the U. S. Fisheries Steamer *Halcyon* cruised in the northern part of the Gulf of Maine. With this year's observations, data have been obtained from cruises undertaken during every month of the year, and Dr. Bigelow is preparing a detailed summary of the results. As in previous years, Dr. Bigelow has also had the direction of the scientific results obtained by the U. S. Coast Guard Steamer *Seneca*, during the Ice patrol of the Grand Banks.

Professor P. E. Raymond's field-work in Quebec, New York, and Maine, was unusually successful. Large and interesting collections were made; some of the fossils obtained were unequalled in quality, others were from localities not usually accessible; an old Devonian locality on the River St. Andre, Quebec, was rediscovered, and a large collection of corals secured.

Dr. Thomas Barbour's generosity to the Museum, apart from his unconventional gifts to the collections under his charge, has been very great; one of the largest and most valuable of his gifts this year is the A. P. Morse collection of insects, a collection of more than 50,000 specimens, with numerous types, chiefly among the Orthoptera. To the collections of mammals and birds Dr. Barbour has given, as in previous years, many species new to the collections and especially selected for their rarity, to complete series, or to further some special need; the beautiful series of nearly 1,800 species of Japanese shells (Hirase collection), added to two earlier gifts of Dr. Barbour, gives the Museum a very serviceable representation of the shells of the Japanese province.

A gift of great scientific value has been received from the Peabody Museum of Yale University through Professor Charles Schuchert. It consists of a series of specimens of a trilobite, *Triarthrus becki* Green, showing appendages; these specimens are a part of the original set prepared and studied by Professor C. E. Beecher, and are, according to Professor Schuchert, in completeness and value secondary only to the series at Yale.

The Museum is greatly indebted to Mr. Arthur F. Gray for the gift of his collection of shells, an enormous series of several million specimens, the accumulation of a life-time of a close student and zealous collector. Mr. Gray's studies were associated with the work of many conchologists, and his collection contains a large amount of original material from the collections of W. G. Binney, Thomas Bland, and James Lewis, three distinguished students of the land shells of the United States and the Antilles.

The Museum is likewise indebted to Colonel John E. Thayer for a beautiful series of mammals from New Mexico, California, and Victoria Land, and for a similar series of reptiles and amphibians from New Mexico; to Mr. Charles P. Curtis for a collection of mammals and birds from British East Africa; to Mr. T. E. Penard for a number of birds from Surinam; to Professor H. W. Smith for a large and well-preserved collection of reptiles from Sarawak; to Professor J. B. Woodworth for the type of *Dromopus woodworthi* Lull; to Professor W. M. Wheeler for a collection of Chinese ants, including the types of new species, and for a number of interesting insects from British Guiana; and to Dr. William Barnes for several types of Plume-moths, Pterophoridae.

Of other accessions the following may be noted: —

From Dr. J. C. Phillips, a fine head (mounted) of Père David's Deer; from the Reverend George Schwab, a considerable series of bird skins and fresh-water fishes; from the Raffles Museum, bird skins from Sarawak; from Mr. C. T. Ramsden, a collection of Cuban fishes; from Stanford University, through Chancellor *emeritus* D. S. Jordan, a slab of diatom rock showing *Xyne grex* Jordan and Gilbert, a Miocene representative of the Herrings; from Mr. B. P. Clark, a number of Sphingidae new to the collection; from Mr. E. B. Williamson, a series of Odonata; from Mr. G. E. Cabot, fossil shells from California; from the Bermuda Biological Station, Dr. E. L. Mark, Director, a large number of marine invertebrates; from the U. S. National Museum, collections of Cynipidae and echinoderms; and from the Institut Océanographique (Monaco), a collection of echinoderms.

A holographic copy, dated November 12, 1860, of Longfellow's well-known poem "The fiftieth birthday of Agassiz," has, through the kindness of Mrs. George R. Agassiz, been added to the Museum's *memorabilia*.

The reports of the Curators give the details of the work accomplished, and of the conditions of the collections in their charge.

In his work upon the collections of mammals, Dr. G. M. Allen has recorded the accession of over 800 specimens, and has added some 3,700 entries, chiefly fossils, to the card catalogue. He has rearranged much of the osteological part of the collection, and developed and identified considerable fossil material. The skeletal parts of the Indian Elephant, "*Molly*" from the Franklin Park Zoölogical Garden, the gift of the City of Boston, to which the Museum is already under obligation for important additions to its collections, were prepared by Dr. Allen and Mr. Nelson with the efficient aid of the N. Ward Company.

The accessions to the collections of recent mollusks, upon which Mr. W. F. Clapp has been engaged throughout the year, have been many and important. Valuable collections, not already mentioned, include an extensive series of operculate land shells received from the Boston Society of Natural History, and smaller series from Guatemala and the Canal Zone, the gifts of Messrs. A. Hinkley and James Zetek. These collections and the Hirase shells, Dr. Barbour's gift, consist very largely of species new to the Museum. In addition to his routine work upon the collection, Mr. Clapp has completed a report upon the shells obtained by Dr. W. M. Mann among the Solomon Islands.

Dr. R. T. Jackson's services were engaged for a part of the year, during which he reidentified and labeled a portion of the collection of fossil Echini.

The scope of Mr. George Nelson's work, as Preparator, varies very little from year to year, but the receipt of new material in the flesh and the call for his services in the preparation or development of material, new and old, to aid the studies of the several Curators or of investigators elsewhere, not infrequently delays the completion of specimens for exhibition. Two of the more noteworthy prepared this year are a Manatee obtained in 1919 at Sebastian, Fla. by Mr. Nelson himself, and an especially fine Sail-fish, *Istiophorus nigricans* (Lacépède) taken off Long Key, Fla. by Mr. George R. Agassiz.

After Mr. Nelson's masterly remount of the Audubon Great Auk, mentioned in last year's Report, Dr. Sanford's wish that the "Naylor" Great Auk and two Labrador Ducks should be entrusted for remounting to the same competent hands was but natural, and in placing Mr. Nelson's time and skill at his disposal, the Museum had a genuine satisfaction, due to the exceptional scientific value of the birds, and to Dr. Sanford's liberality in allowing the Museum to share in the results of his well-directed

and successful work for the promotion of ornithological exploration.

For the voluntary work of Miss Elizabeth B. Bryant and Mr. T. E. Penard the Museum is greatly indebted.

The Library contains 58,639 volumes, and 62,145 pamphlets; 1,225 volumes and 2,159 pamphlets have been received during the year.

The publications for the year include two numbers of the *Memoirs*, five numbers of the *Bulletin* and the *Annual Report*, a total of 438 (144 quarto, and 294 octavo) pages, illustrated by 41 (32 quarto, and 9 octavo) plates. One number of the *Memoirs* contains the Report on the Holothurians collected during the expeditions of the U. S. Fisheries Steamer *Albatross* in the Tropical and Eastern Tropical Pacific, during the years 1899-1900 and 1904-05. This Memoir completes the reports on the *Albatross* echinoderms. The other Memoir contains the third part of Dr. C. H. Eigenmann's account of the American Characidae. All five *Bulletins* are based upon Museum collections.

The Museum suffered a severe loss in the death of Walter Faxon, which occurred at Lexington, August 10, 1920. Associated with the work of the Museum for nearly fifty years, Dr. Faxon's curatorial charge of the Crustacea and Mollusca gives an all too inadequate indication of his services and of the breadth and extent of his knowledge. A chief authority on certain groups of the Crustacea, unexcelled as a field naturalist, Dr. Faxon was an admirable type of the scholarly man of science. He gained and retained the confidence of his associates to a remarkable degree; on taxonomic and nomenclatorial questions the soundness of his conclusions and the clarity of his explanations were most convincing. Dr. Faxon bequeathed his books and pamphlets on zoölogy, palaeontology, and geology to the Museum. Only a small part of this bequest, 399 titles, has been catalogued and added to the Museum's shelves, and though very many of the ornithological works have been forestalled by the William Brewster bequest, the Faxon duplicates will, through our system of exchanges, associate his name with many future accessions. Dr. Faxon's bequest contains a unique and probably unequalled collection of the writings, scientific and literary, of Alexander Wilson.

SAMUEL HENSHAW, *Director*.

THE ZOÖLOGICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The courses in Zoölogy for the year 1920–21 were given by the same instructors as in the previous year with the exception of Zoölogy 1, which was conducted by Professor Brues. Professor Parker was away during the second half-year, having been appointed Exchange Professor at one of the groups of western colleges; he was resident for one month each at the following colleges: Grinnell, Colorado, and Pomona.

The number of students who attended the several courses is given, as in previous years, by schools and classes in the form of tables. Table I gives the numbers of students in Harvard University, and Table II of those in Radcliffe College.

TABLE I

Courses 1920–21	Graduates		Educ.	Sen.	Jun.	Soph.	Fresh.	Uncl.	ocC.	Sp.	Engin.	Total
	A. & S.	Ap. Sc.										
Zoölogy 1	3	1	..	13	32	50	61	24	4	10	1	199
" 3	3+2	..	..	3	11	9	9	10	..	7	..	52+ 2
" 4	+1	..	..	..	5	3	..	10	1	4	..	23+ 1
" 5 <i>b</i>	4+2	..	1	..	3	2	..	4	..	2	..	16+ 2
" 7 <i>a</i>	3	2	..	..	2	1	..	1	..	..	..	9
" 7 <i>b</i>	2	2	..	..	2	..	..	1	..	..	..	7
" 8	..	..	..	9	30	8	..	8	2	..	1	58
" 14 <i>a</i>	4	..	..	2	3	..	..	3	..	..	..	12+ 6 ¹
" 17	2	..	..	2	2	..	..	1	..	..	..	7
" Sp. ²	1	..	..	..	..	..	..	..	..	..	..	1
" 20 <i>a</i>	1	..	..	..	1	..	..	..	..	..	..	2
" 20 <i>b</i>	1	..	..	..	..	..	..	..	..	..	..	1
" 20 <i>c</i>	3	..	..	..	..	..	..	..	..	..	..	3
" 20 <i>e</i>	2	..	..	..	..	..	..	..	..	..	..	2
" 20 <i>g</i>	2	..	..	..	1	..	..	..	..	..	..	3
Sums:	31+5	5	1	29	92	73	70	62	7	23	2	395+11

¹ Not recorded by schools and classes.

² Special research under Dr. Thomas Barbour.

Note. — Numbers in italics refer to students attending the lectures, but not enrolled in the course.

TABLE II

Courses 1920-21	Gr.	Sen.	Jun.	Soph.	Fresh.	Unc.	Sp.	Total
Zoölogy 1	1	4	7	9	7	6	1	35
" 2	2	6	..	2	..	1	..	11
" 3	1	..	1	4	..	3	..	9
" 4 . . . . .	..	1	3	1	..	1	..	6
" 5 <i>b</i>	1	3	..	1	..	1	..	6
" 7 . . . . .	..	2	2	2	..	..	..	6
" 12 . . . . .	..	3	..	..	..	..	..	3
" 14 <i>a</i> . . . . .	..	5	2	..	..	..	..	7+ ²¹
" 17 . . . . .	..	4	..	..	..	..	..	4
" 20 <i>e</i> . . . . .	..	2	..	..	..	..	..	2
" 20 <i>g</i> . . . . .	..	1	..	..	..	..	..	1
Sums	5	31	15	19	7	12	1	90+2

¹ Not recorded by classes.

The assistants in the courses were: Zoölogy 1, *Harvard*: chief-assistants, Messrs. W. H. Cole and A. S. Gilson, Jr., sub-assistants, Messrs. E. S. Anderson, R. Bennitt and R. F. Hussey; *Radcliffe*: assistants, Messrs. E. R. Dunn and R. F. Hussey. Zoölogy 3, *Harvard*: chief-assistant, Mr. R. Bennitt, sub-assistant, Mr. A. E. Longley; *Radcliffe*: assistant, Mr. E. R. Dunn. Zoölogy 4, *Harvard*: assistant, Mr. L. C. Wyman; *Radcliffe*: assistant, Mr. F. B. Manning. Zoölogy 5*b*, *Harvard* and *Radcliffe*: assistant, Mr. L. C. Wyman. Zoölogy 12, *Radcliffe*: Assistant, Mr. L. C. Wyman.

All courses except 7*a* and 7*b* — given at the Bussey Institution — were given in Cambridge. Three Harvard students took Zoölogy 14*a* as a thesis course, nine as a laboratory course; and of the Radcliffe students five took it as a thesis course, two as a laboratory course.

The Extension Course in Elementary Zoölogy was given by Professor Parker in the first half-year to fifteen students, eight of whom took the examination. Mr. A. S. Gilson, Jr. was the assistant in the course.

During the first half-year Dr. Ann Morgan of Mt. Holyoke College, a guest of the laboratory, worked under the direction of Professor Parker on the senses of the frog's skin. Other research work carried on in the department was counted as equivalent to courses as follows: In Harvard, Zoölogy 20*a* and 20*b*, under Professor Mark, one and one-half courses; Zoölogy 20*c*, under Pro-

fessor Parker, three courses; Zoölogy 20*e* and 20*g*, under Associate Professor Rand, five and one-half courses; under Dr. Thomas Barbour, two and one-half courses; in Radcliffe College, Zoölogy 20*e* and 20*g* under Associate Professor Rand, one and one-half courses.

The degree of Doctor of Philosophy was conferred in February, 1921, on Samuel Wood Chase, the subject of whose thesis was given in the report for 1919-20, and in June, 1921, on Herbert Greenleaf Coar, whose thesis was on "The Shell of *Balanus eburneus*: A Contribution to the Study of the Operculate Cirripedia."

The Bermuda Biological Station was open from the eighth of July till the fifteenth of August. Including the Director, there were in attendance the whole or a part of the time seven investigators, five of whom were, or had been, students in Harvard University or Radcliffe College.

The Harvard Table at the Marine Biological Laboratory, Woods Hole, was shared by two graduate students, that of Radcliffe College was occupied by one graduate student.

Financial assistance to the amount of \$270.00 was given from the Humboldt Fund to Harvard research students at the Bermuda Station and the Woods Hole Laboratory, but the payments fall within the fiscal year 1921-22.

The Zoölogical Club held twenty-three meetings during the year, at which twenty-two original papers and seven reviews were presented. The average attendance was nineteen. Mr. S. W. Chase was the secretary.

During the year twenty-three papers by officers and students of the Department have been published, including those published as Contributions from the Zoölogical Laboratory and as Contributions from the Bermuda Biological Station, but not including those in Applied Zoölogy. The titles are printed in the current Report of the Director of the Museum of Comparative Zoölogy.

EDWARD L. MARK, *Director.*

THE PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — It is with profound regret that I record the death of one of the chief benefactors of the Museum — Mr. Charles Pickering Bowditch of the class of '63, who died June 1st. The active interest of Mr. Bowditch in the Museum dates from the winter of 1887-88, when he visited the ruins of southern Mexico, and obtained a collection which formed the nucleus for many other similar gifts. In 1889-90 he was appointed by the Corporation a member of the first Committee to visit the Peabody Museum.

In 1894-95, Mr. Bowditch was elected to fill the vacancy in the Board of Trustees caused by the resignation of Mr. E. G. Willson. In 1897, when the Museum passed from the control of the Board of Trustees established by its founder to that of the University Corporation, he became one of the members of its Faculty, a position held until his death.

In 1891 he took an active part in organizing the first Honduras Expedition. Since that time, for a period of more than thirty years, he missed no opportunity to stimulate interest in the study of the civilizations of Middle America, especially that of the Maya people, and he contributed generously toward the Museum expeditions to that region. The exhibits in the Middle American Hall are largely the result of his interest and generosity. He also established the Museum *Memoirs*, a series of quarto publications upon Mayan subjects. Mr. Bowditch was one of the foremost Maya scholars, and his contributions to the literature of the subject are many.

The Expedition to Middle America for the present year was under the immediate charge of Dr. H. J. Spinden, Associate in Anthropology. He was accompanied by Julien Lathrop, Harvard 1918, and Lieutenant R. W. Sheets. They visited most of the lesser known ruins of northern Yucatan, especially those south of Uxmal, and extended their exploration into a field hitherto unknown to archaeologists. Using Xkanha as a base, excursions were made in various directions. The most extensive trip was one to the south touching Aguada Carolina, and arriving within

four leagues of the Rio Beque. This exploration made contact with the region previously investigated under the auspices of the Museum by Dr. Merwin and Mr. Hay in 1914. The expedition was planned as a preliminary entrance into a large unexplored area, in which it is hoped remains will be found belonging to the middle period of Maya history. Innumerable ruins were encountered, most of which were in complete decay. In ten or twelve sites, however, walls with decorations were found sufficiently intact to render possible a scientific classification.

Mr. S. J. Guernsey continued the explorations of the Museum in the Marsh Pass region of northeastern Arizona, for the purpose of obtaining additional material and data relating to the early cultures of the Southwest. Efforts along these lines were particularly successful. Remains were discovered that seem to mark an intermediate stage of development between the Basket-makers, the earliest occupants of this region of whom we have knowledge, and the Cliff-dwellers. These relics occurred both in caves and in sites in the open; in the former, material hitherto unrepresented in any museum collection was found, while from the latter, skeletal remains, accompanied by a new and apparently very early type of pottery, were obtained.

Dr. Charles Peabody, Curator of European Archaeology, passed a considerable portion of the year abroad. He carried on explorations in several localities in France and Belgium, either alone or in connection with Dr. Henri Martin and others, and secured for the Museum much new material. He also obtained by way of gifts and exchange a collection of some two thousand archaeological specimens from Morocco, Algeria, and other sections of northwestern Africa.

Mr. William J. La Varre, who has travelled extensively among the tribes of northern South America, was commissioned to secure such objects as could be obtained from the Accawai Indians of western British Guiana during his exploration in their territory, and a small but valuable collection has been received.

In May Dr. C. F. Newcombe visited the Kwakiutl Indians of British Columbia, under the auspices of the Museum, for the purpose of locating the few remaining house-posts or other large carvings of these Indians. He secured two unusually fine examples of the former from Kalukwis Village on Tournour Island. These posts are about sixteen feet high, and are nearly four feet in diameter. Each post is carved with figures representing the speaker of the chief, and the ancestral grizzly bear who was friendly to the

founder of the family and who aided him in many ways, giving him rights to certain dances, and teaching him how to use certain masks. These remarkable carvings have been received, and are now on exhibition.

In June, Mr. Paul F. Scott, a graduate student in the Division of Anthropology, explored for the Museum a prehistoric village site at Ulster, Pennsylvania.

Two large shipments of ethnological material have been received from Mr. George Schwab, a Museum Associate in Anthropology, who is at present doing missionary work among the Bene people of southern Cameroon. Mr. Schwab, a former post-graduate student in the Division of Anthropology, has unusual opportunities for research among this people. It is hoped that the results of his investigations will appear in the publications of the Museum.

Assistant Professor Hooton, Curator of Somatology, has prepared an exhibit of casts and osteological specimens illustrating certain successive stages in the evolution of man. He has been engaged also in the preparation of reports upon the skeletal remains from the Pecos ruins of New Mexico, and from the Turner group of earthworks, Hamilton County, Ohio.

The Museum has received gifts of specimens from twenty-three individuals during the year. The largest of the collections is from the Reverend E. Carroll Condict, who has been for some years stationed as a missionary near Thayetmayo, Burma. These objects were obtained principally from the southern Chins, but a number of articles were collected from the Burmese. This is a most welcome addition to the material illustrating the customs of the tribes of southern Asia.

There has been received as a gift from Captain J. E. Philipps, Commissioner for the District of Kigezi, Kabale, Africa, a number of very rare ethnological objects from his district.

Dr. Thomas Barbour has added numerous specimens to the collection previously obtained by him from the Seminole Indians of Florida, including a large dugout canoe procured during his recent visit to these Indians near Lake Okeechobee.

Professor W. H. Pickering has given two very rare pictograph records from Bolivia, each drawn upon the inner side of a prepared goat skin, probably by an Aymara Indian. These were obtained by Professor Pickering about thirty years ago, and are of special interest.

The Museum is fortunate in receiving in exchange with the Otago University Museum, Dunedin, New Zealand, two large Maori

house-slabs, showing ancestral figures, finely carved. These are the work of the Ngateporu wood carvers about fifty years ago, and are among the very last productions of these remarkable craftsmen.

A Kwakiutl Indian house-group has been added to the series illustrating the habitations and home life of the American Indians. The Museum now has fifteen of these instructive groups, fourteen of which relate to North American tribes. Mr. Augustus Hemenway has very kindly given the cases for several of these groups, including the one recently completed.

The following Museum *Papers* have been published during the year: Vol. VI, No. 2, A Possible Solution of the Number Series on Pages 51 to 58 of the Dresden Codex, by Carl E. Guthe; Vol. VIII, No. 2, Basket-maker Caves of Northeastern Arizona, by S. J. Guernsey and A. V. Kidder; Vol. IX, A Maya Grammar, by Alfred M. Tozzer. Volume III of the Harvard African Studies, of which Assistant Professor Hooton is the Editor, is expected from the press soon. A report on the exploration by the Museum of the Sacred Cenote at Chichen Itza, Yucatan, is in the course of preparation by Professor Tozzer and Dr. Spinden. This will be issued as a part of the Museum *Memoirs*. The report on the exploration of the Turner group of earthworks in Ohio is nearly ready for the press. In addition to her other duties, Miss Gleason has prepared many pen-and-ink illustrations for the two last mentioned reports.

Under the supervision of Professor Dixon, the Museum Library takes high rank among the anthropological libraries of the country. The files of current anthropological literature are especially complete, and the careful indexing of articles renders them of unusual value to students. This work has been efficiently carried forward by Miss Ashenden, the Assistant Librarian. The Library now consists of 16,166 books and pamphlets. There have been received during the year 330 volumes and 62 pamphlets. Of these, 137 volumes are the gift of Dr. L. C. Jones. Mr. J. B. Stetson, Jr., has given a set of rare Russki Antropologicheskii Zhurnal. He has also contributed liberally for the purchase of books.

The large hall devoted to North American Ethnology which occupies the first floor of the new section, although but partially supplied with exhibition cases, was opened to the public in September. Eight cases have been built for this room, and in the four recently added has been arranged a portion of the ethnological material from northwestern United States presented by Mr. Lewis H. Farlow. Five alcove cases and two large wall cases are

needed for this hall before final arrangement of the collections can be made.

It is hoped with the substantial reduction of one-half or more in the price of plate glass, which has taken place within the last year, that the Museum will be able, with the aid of its friends, to continue the casing of its new halls. It is of the utmost importance that this should be done, for a considerable portion of the collections are unavailable for study until suitable cases are provided. Nearly all of the material from Africa and Asia, and a large part of that from the Pacific Islands, is still in storage.

CHARLES C. WILLOUGHBY, *Director*.

THE SEMITIC MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — It is with great regret that I report the death of Jacob Henry Schiff, Founder and chief Benefactor of the Semitic Museum, which occurred in New York on September 25, 1920.

For twenty-five years (1889–1914) Mr. Schiff was a member of the Committee appointed by the Overseers to visit the Semitic Department, and for twenty-one years (1893–1914) he was its Chairman. His first gift to the Department was one of ten thousand dollars (1890) for the purchase of materials illustrating the instruction given in the Department. This was followed by a series of gifts extending over many years. One of these was for the creation of a departmental Library. Then came the Semitic building, providing lecture rooms and a permanent home for the Library and the collections; a considerable addition to the endowment of instruction in Semitic; the whole expense of the exploration of Samaria (1908–10); and repeated gifts toward the Museum collections and the Library. The total amounts to more than a quarter of a million dollars. In addition to these material benefactions Mr. Schiff gave freely of his time and his thought. It has been the practice of the Committee to hold meetings once or twice a year, in Cambridge or Boston, and Mr. Schiff was never absent except when he was abroad.

When he resigned from the Committee in 1914 a minute was drawn up, bearing the signatures of his colleagues and of the departmental instructors, in testimony of their gratitude for his services and their appreciation of his character. As an earlier token of appreciation his colleagues on the Committee, Messrs. Stephen Salisbury, Isidor Straus, and George Wigglesworth, in 1904 presented to the Museum an oil painting of Mr. Schiff made by Louis Loeb in 1903–04. With characteristic modesty, Mr. Schiff for a while refused to sit for this picture, and consented to do so only on condition that it should not be publicly exhibited during his lifetime.

In his will Mr. Schiff bequeathed twenty-five thousand dollars to the Museum, the income of which is to be used for making additions to the collections. Another gift to the Museum amount-

ing to five thousand dollars has come from the estate of Mr. and Mrs. Jacob H. Hecht, two of Mr. Schiff's Boston friends. At the time of Mr. Hecht's death in February, 1903, it was announced that he had named this sum for the Museum in his will, to be paid in after the death of Mrs. Hecht, which occurred on September 5, 1920.

These gifts of thirty thousand dollars by Mr. Schiff and his friends raise the question whether the time may not have come to try to increase the endowment, to the extent at least of making the Museum self-supporting. Hitherto the cost of maintenance has fallen on the University. At their annual meeting the Visiting Committee of 1920-21 considered plans for entering on a quiet campaign in behalf of an endowment, but the time was thought to be not opportune for the undertaking, because the Alumni had been so recently engaged in raising large sums of money for the University. It is believed that the Museum would appeal to classes of persons essentially different from the contributors in the recent drive, and that therefore the kind of campaign which the Committee have in mind might now be undertaken without risk to the larger interests of the University.

An endowment is needed to furnish the means for making additions to the collections and the Library and for providing special exhibits and lectures to explain the significance of the Museum and its contents. The ignorance regarding things Semitic is great, even in our own favored community. The number of persons who understand the scope of the word Semitic is small, and still fewer are those who understand what the Semites have contributed to civilization. Though many teachers and schools in this vicinity, and especially classes in history, art, and the Bible, make use of our collections, this use might be greatly extended, with profit to all concerned.

At the Commencement of 1901, while our building was in process of erection, President Eliot, in conferring on me an honorary degree, spoke of me as one who had conceived the Semitic Museum and was seeing his vision fulfilled. The creation of an endowment for the Museum, which would attain the objects named in the preceding paragraph, bring relief to the Treasury of the University, and provide the means for exploration and publication, is another vision which I have long hoped to see fulfilled.

DAVID G. LYON, *Curator.*

THE FOGG ART MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to present the following report on the Fogg Art Museum for the year 1920–21.

The year has been one of notable interest and activity. Accessions of unusual importance both by gift and by purchase have been made; interesting series of lectures have been given, and exhibitions held. The use of the Museum, not only by the students, but by the public, as shown in the attendance at lectures and exhibitions, has been most gratifying.

DEPARTMENT OF PAINTING

Among the accessions of first importance is a fine painting of St. Dominic attributed to Guido da Siena (active 1221), perhaps the first significant name in the history of Italian painting. This painting was purchased from the income of the Hervey E. Wetzel bequest, and in addition to its decorative beauty is a valuable acquisition for the Museum collection of Siennese paintings. Most of the notable masters of this school are now well represented in the Museum.

The department of painting has been further enriched by gifts. Mr. and Mrs. Bernard Berenson presented to the Museum two fifteenth century Italian pictures: one, a Nativity by the Florentine, Bicci di Lorenzo, and one, a representation of St. Jerome by the Venetian painter, Vittorio Crivelli. A fine painting representing St. Catherine of Siena, by the fifteenth century Siennese master, Giovanni di Paolo, was given to the Museum by Sir Joseph Duveen.

Of great interest and value to students are two copies by the Russian artist, Nicolas Lokhoff: one, of the Concert in the Pitti Gallery, attributed to Giorgione, a gift to the Museum from Dr. Denman W. Ross, Class of 1875; and the other, a copy of a portion of the fresco painted in 1459 by the Florentine, Benozzo Gozzoli, in the Medici palace (Riccardi Palace), Florence, this latter a gift of the Society of Friends of the Fogg Art Museum. Mr. Lokhoff has a profound knowledge of technical processes and his copies are remarkable in their likeness to the originals. The fresco is of particular significance for students, as it is only through copies

that this method of painting as practised in fifteenth century Italy can be studied in this country.

PRINT DEPARTMENT

This department has acquired a few rare and valuable prints and drawings. Conspicuous among these is a fine impression of Mantegna's Seated Virgin, and one of the Entombment, a work of the Mantegna school; also two very rare so-called "paste prints," all purchased from the Gray Fund. Professor Paul J. Sachs gave to the Museum another of these "paste prints," and nearly one thousand woodcuts which had been used as illustrations in books printed from the fifteenth to the seventeenth century. Two large cartoons by Guido Reni were given by Dr. Denman W. Ross.

SCULPTURE

A fine Head of a King, or Emperor, a work of the French Romanesque school, probably the School of Poitou, has been purchased from the income of the Hervey E. Wetzel bequest. The head dates from the twelfth century and is of rare beauty and impressiveness. This is the first permanent acquisition made by the Museum in the field of Mediaeval Sculpture. It is hoped that it may be followed by a further development in this very important department.

ORIENTAL DEPARTMENT

Through the generosity of the Society of Friends of the Fogg Art Museum an extremely fine Japanese painting of the Tosa school of the end of the fifteenth century has been acquired for the Oriental department.

Other acquisitions in this department have been a Korean still-life painting; a seventeenth century Japanese screen of the School of Matahei; a piece of Persian pottery dating from the thirteenth century; and three Indian miniatures, the gift of Dr. Denman W. Ross.

MODERN PAINTING

Two water colors by Sargent and one by Winslow Homer have been purchased from the Bettens Fund.

It is impossible to speak in detail in this space of all the interesting and significant works of art acquired during the year by the Museum. A complete list of gifts and loans with names of donors and lenders together with a list of loans by the Museum will be found at the end of this report.

EXHIBITIONS

Of exceptional interest and beauty was an exhibition of a collection of Illuminated Manuscripts lent by John Pierpont Morgan, Class of 1889. Twenty-seven illuminated books and leaves were shown in the Print Room, March 15–April 14. Several of these manuscripts had been lent before. Among the manuscripts lent for the first time were a fine Spanish “Beatus,” dating from the ninth century; the well-known “Huntingfield Psalter,” English twelfth century; the so-called “Golden Gospels” of Henry VIII; and a beautiful Italian Martyrology of the twelfth century. This unusual opportunity to see and study the art of illumination in some of its finest examples aroused wide-spread interest. The attendance during the four weeks of the exhibition was 5,430.

Other exhibitions were: Pencil Drawings by Kenneth J. Conant, Class of 1915, drawings made chiefly in Spain by Mr. Conant while holder of the Sachs Research Fellowship; Prints by Degas, Forain, and Pissarro, lent by Charles B. Eddy. French Drawings and Prints; Rembrandt Etchings; Early German Engravings; and Etchings by Meryon, Seymour Haden, Whistler, and Zorn have also been shown in the Print Room. For this latter exhibition twenty-seven prints were lent by Horatio G. Curtis, Class of 1865.

BOOKS, PHOTOGRAPHS, AND SLIDES

One hundred and fifty-eight volumes were added to the Museum Library by gift and by purchase. The Boston Museum of Fine Arts and the Boston Public Library have lent books and photographs to the Fogg Museum from time to time.

Among the additions to the collections of photographs and slides have been about one thousand three hundred photographs of Spanish primitive paintings, and one hundred and seventy-eight slides of illuminated manuscripts, which help to strengthen the collection in what were previously weak points. Two thousand seven hundred and fifty-two photographs and three hundred and fifty-eight slides have been catalogued. Slides have been issued to instructors two hundred and ninety-two times. The public school lending set of Greek slides has been sent to fifteen schools, the Roman slides to eighteen, and the English slides to thirteen schools.

The department is planning to coöperate with the Museum of Princeton University in an iconographical index on which the Princeton Museum is now working.

STAFF

The Director was absent from the Museum for four months, February through May, owing to his appointment as Exchange Professor to Carleton, Knox, and Beloit Colleges.

Miss Averyl A. Dickinson resigned from the staff, her resignation taking effect on April 6. Mrs. Richard W. Hall assisted in the photograph department from June 6, and Miss Rosalind G. Parker from July 25.

GIFTS

Anonymous: Persian miniature, seventeenth (?) century.

Anonymous gift through Mrs. R. M. Appleton: Chinese wooden Buddha. Bernard Berenson, Class of 1887, and Mrs. Berenson: Painting by Crivelli (St. Jerome); Painting by Bicci di Lorenzo (Nativity).

Miss Ellen Bullard: Pencil drawing (Mother and Child); Pencil drawing by Turner (Mountainous Landscape); one pencil drawing; two Japanese prints; three Indian drawings.

Kenneth John Conant: Two drawings of Avila; one drawing of Notre Dame, Paris.

G. J. Demotte: Two lions' heads; one plaster head.

R. Langton Douglas: Painting by Pacchiarotto (Madonna and Child).

Sir Joseph Duveen: Painting by Giovanni di Paolo (St. Catherine).

Dr. William Herman: Late Byzantine painting; two wings of a triptych.

Charles Loeser, Class of 1886: Two paintings, early Italian school.

Mrs. T. O. Richardson: Byzantine painting; fifteenth century Italian triptych (Madonna and Child); fifteenth century Italian triptych (St. Catherine and two Saints).

Dr. Denman W. Ross: Copy of Giorgione's Concert by Nicolas Lokhoff; Korean still-life painting; three Indian miniatures; two drawings by Guido Reni; piece of Persian pottery; two scribblings by Giovanni Battista Tiepolo; six paintings of the eighteenth century Italian school; Japanese screen of the School of Matahei, seventeenth century.

Professor Paul J. Sachs, Class of 1900: Fragment of Kufic manuscript; drawing, School of Raphael; copperplate engraved by Israhel van Meckenem.

Mrs. Henry Simonds: Four drawings by William Rimmer.

Society of Friends of the Fogg Art Museum: Copy of portion of Benozzo Gozzoli's fresco in the Riccardi Palace; Japanese painting of the Tosa school, late fifteenth century.

Miss Leila Usher: Bronze medal of Francis James Child by Leila Usher.

Yamanaka and Company: Rubbing from monument to Mr. Fenollosa.

The following prints have been received as gifts:

Miss Ellen Bullard: Marcantonio (Venus and Aeneas); Lepère (Notre Dame vue du Quai Montebello); Lalanne (Rue des Marmousets); also forty-four etchings, engravings, and reproductions of engravings.

- Edward W. Forbes, Class of 1895: Ninety-four eighteenth (?) century Italian playing-cards.
- Museum of Fine Arts, Boston: One hundred and three photographs of prints.
- Professor Paul J. Sachs: Collection of nine hundred and eighty-one woodcuts; "paste print"; Manet etching; woodcut; etching by Hornby; playing-card.
- Horace Swope, Class of 1905: Triumph of Caesar, after Mantegna (chiaroscuro woodcut by Andreani).
- Miss Mary A. Wright: Four mezzotints, colored.

LOANS

- Charles J. Brown: Engraving by Lucas, after Harding.
- Mrs. John Storer Cobb: Two oil paintings of the Venetian school (School of Bassano).
- Kenneth John Conant: Ninety-five pencil drawings of architectural subjects.
- Horatio G. Curtis: Thirteen etchings by Meryon; eight etchings by Zorn; four etchings by Whistler; two etchings by Haden.
- Charles B. Eddy: Thirty-nine etchings and lithographs by Degas, Forain, and Pissarro; four engravings by Schongauer.
- Mrs. William Emerson: Three Books of Hours; Arabic manuscript; drawings and books by Blake; engravings by and after Blake.
- Edward W. Forbes: Water color by Turner (The Wave); water color by Turner (Simplon Pass); Henri II bench; two pieces of velvet; three fourteenth century Persian miniatures.
- Thomas A. Fox: Painting by Sargent (Camping in the Rockies).
- Princess Alexandre Gagarine: Eight Russian Icons; Persian miniature; Cross.
- G. Peabody Gardner, Jr., Class of 1910: Two water colors by Dodge Macknight.
- Miss Charlotte Hallowell: Two choir books, fourteenth to fifteenth century; one framed fragment of leaf of choir book; Missall Romanum, Venice, 1563; drawing.
- Miss A. E. Hawley: Priest's robe; piece of red brocade.
- Dr. William Herman: Painting by Ribera; Italian Primitive; water color by Dodge Macknight; etching by Zorn.
- Charles Hopkinson, Class of 1891: Portrait by himself (President Eliot).
- Mrs. John T. Linzee: Four Japanese paintings; fifty-four volumes.
- John Pierpont Morgan: Twenty-five illuminated manuscripts; two leaves.
- Museum of Fine Arts, Boston: Drawing by Forain.
- Mrs. B. O. Pierce: Fragment of Greek sculpture.
- Professor Paul J. Sachs: Fifth century Greek head; fourth century Greek head; tenth century Cambodian head; German sixteenth century painting (Christ in the Garden of Gethsemane).
- Schofield Thayer, Class of 1912: Four drawings by Aubrey Beardsley.
- Miss Mary D. Upham: Terra-cotta relief attributed to Della Robbia.
- The Widener Library: Ten early German illustrated books.
- Miss Sarah Wiltse: Two Italian paintings of the Umbrian (?) school.

LOANS BY THE MUSEUM

- To Harvard Union: Seven framed photographs; six plaster casts.
 To Kenneth John Conant: Five drawings.
 To Massachusetts Institute of Technology: Twenty-five water colors; two drawings by Kenneth John Conant (St. Peter's).
 To Dartmouth College: Painting by Sargent (Lake O'Hara).
 To Wellesley College: Ten water colors by Joseph Lindon Smith.
 To Rhode Island School of Design: Four drawings by Kenneth John Conant.
 To Copley Society: Water color by Sargent.
 To Cleveland Museum of Art: Water color by Sargent; six prints.
 To Art Institute of Chicago: Water color by Sargent.
 To Arthur H. Harlow and Company: Two drawings by Kenneth John Conant (St. Peter's).

Books, photographs and other reproductions, and slides have been received as gifts from:

- | | |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Art Institute of Chicago | Professor Allan Marquand, Princeton University |
| C. Bemelmans | Metropolitan Museum of Art, New York |
| Robert Benson | Charles Jacques Meunier |
| Mrs. Edward H. Bradford | Professor Charles R. Morey, Princeton University |
| British Museum, Department of British and Mediaeval Antiquities and Ethnography | Museum of Fine Arts, Boston |
| Charles Bullard, Class of 1894 | Dr. Giacomo de Nicola |
| Miss Ellen Bullard | The Misses Norton |
| Sidney C. Cockerell | Miss Sara Norton |
| Kenneth John Conant | Owen School, London, England |
| A. R. Crook | Arthur Stanwood Pier, Class of 1895 |
| T. Franklin Currier, Class of 1894 | Professor Chandler R. Post, Class of 1904 |
| Fine Arts 1c | Rhode Island School of Design |
| Fine Arts 1d | Dr. Denman W. Ross |
| Edward W. Forbes | Martin A. Ryerson |
| Miss Helen C. Frick | Professor Paul J. Sachs |
| Miss Margaret E. Gilman | Herbert F. Schuchmann |
| Henry Goldman | Director of the State Office for the Care of Monuments, The Hague, Holland |
| Carl W. Hamilton | Professor G. F. Swain |
| W. F. Harris | Miss Augusta Tavender |
| Harvard College Library (transferred to Fogg Museum) | Sir Hamo Thornycroft |
| Hillyer Art Gallery, Smith College | Robert C. Witt |
| Professor William Sergeant Kendall | Yale University Press |
| Library of Congress | |
| Maison Nels, Brussels | |
| Paul Manship | |

NEEDS

Every year makes more noticeable the need of a larger building. With each new acquisition arises the question of where it can be placed so that it will be seen to advantage. It has become necessary to use a part of the gallery and two of the exhibition rooms as working rooms. A third exhibition room has been turned into a lecture room. The lack of space hampers the work of professors, students, and staff.

The problem of funds is also one that continually confronts the Museum. The increasing activities, which it seems to the Directors should not be curtailed, necessitate each year the raising by them of from \$6,000 to \$15,000 to cover the deficit.

EDWARD W. FORBES, *Director*.

HARVARD UNIVERSITY PRESS

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit my report for the academic year 1920–21.

Conditions during the year have not been favorable to publishing enterprises. A strike in the printing trades last spring involved the binderies and not only delayed the appearance of several books but also embarrassed us in maintaining our bound stock of books already issued. In spite of these handicaps, however, the number of books published equalled the output of 1919–20, and the volume of sales was only slightly less. The following is the list of new titles added to our catalogue during the year:

- Old and New: Sundry Papers. By Charles Hall Grandgent, Professor of Romance Languages in Harvard University.
- Genetics and Eugenics. Second edition; revised and enlarged. By William Ernest Castle, Professor of Zoölogy in Harvard University.
- Robert Curthose, Duke of Normandy. By Charles Wendell David, Associate Professor of History in Bryn Mawr College.
- Argentine International Trade under Inconvertible Paper Money, 1880–1900. By John Henry Williams, Associate Professor of Banking in Northwestern University.
- Harvard Studies in Classical Philology, volume 31.
- Dante's Divine Comedy: The Purgatorio. Translated by Courtney Langdon, Professor of Romance Languages and Literature in Brown University.
- English Pageantry: An Historical Outline. Volume 2. By Robert Withington, Associate Professor of English in Smith College.
- Living Again. The Ingersoll Lecture for 1920. By Charles Reynolds Brown, Dean of the Yale Divinity School.
- French Classicism. By Charles Henry Conrad Wright, Professor of the French Language and Literature in Harvard University.
- A History of English-Canadian Literature to the Confederation. By Ray Palmer Baker, Professor of English in the Rensselaer Polytechnic Institute.
- The Equality of States in International Law. By Edwin DeWitt Dickinson, Professor of Law in the University of Michigan.
- Sight Saving Classes in the Public Schools. By R. B. Irwin, Department of the Blind, Cleveland Public Schools.
- The Mesta: A Study in Spanish Economic History, 1273–1834. By Julius Klein, Assistant Professor of Latin American History and Economics in Harvard University.

- Fugitive Essays. By Josiah Royce, Late Alford Professor of Natural Religion, Moral Philosophy, and Civil Polity in Harvard University.
- Insects and Human Welfare. By Charles Thomas Brues, Assistant Professor of Economic Entomology in Harvard University.
- The Writer's Art. Edited by Rollo Walter Brown, Professor of Rhetoric and Composition in Carleton College.
- A Guide to the Study of Occupations. By Frederick James Allen, of the Harvard Bureau of Vocational Guidance.
- A Hundred Voices. By Kostas Palamas, Secretary of the University of Athens. Translated by Aristides Evangelus Phoutrides, Instructor in the Classics in Harvard University.

A new caster and job press, with some minor equipment, have been installed during the year. Several important books are in process of manufacture and we are in better position than ever before to take advantage of the gradually improving conditions in the general business world.

HAROLD MURDOCK, *Director of the Press.*

UNIVERSITY EXTENSION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The following report covers the work of University Extension for the academic year 1920–21, including the Summer School of Arts and Sciences and of Education for 1921.

I. THE SUMMER SCHOOL OF ARTS AND SCIENCES AND OF EDUCATION

The conduct of the Summer School of 1921 was in the hands of Assistant Professor J. Tucker Murray.

In 1921 the Summer School was reorganized as the Summer School of Arts and Sciences and of Education and was conducted by concurrent action of the Faculty of Arts and Sciences and of the Faculty of the Graduate School of Education. The usual session of the Summer School was held from July 5 to August 13, and was attended by two thousand and twenty-two students, the largest attendance in the history of the School. In 1920 we had two hundred and seventy-seven Harvard students, and in 1921 we had three hundred and twenty-three Harvard students.

The general courses of the Summer School were offered by fifty-three officers of the Faculty of Arts and Sciences, and one of the Faculty of Architecture, including sixteen professors, ten associate professors, six assistant professors, thirteen instructors, three assistants, and five lecturers; together with six professors, one associate professor, three assistant professors, and five instructors from other institutions, and five gentlemen not holding academic positions.

The courses in Physical Education at the Hemenway Gymnasium under the direction of Mr. W. H. Geer engaged the services of a large number of other instructors, lecturers, and assistants.

All courses met five times a week for six weeks.

The total number of persons in attendance was as follows:

	1918	1919		1920	1921
		1st sess'n	2d sess'n		
Total number of students.....	1709	1245	1729	647	2022
“ “ “ men.....	797	815	1066	593	997
“ “ “ women.....	912	430	663	54	1023
Percentage of men.....	44 %	65 %	62 %	92 %	49 %

This body of students was made up as follows:

	1918	1919		1920	1921
		1st sess'n	2d sess'n		
Students at Engineering Camp	0	3	0	43	39
Students in Reserve Officers' Training Camp.....	522	0	0	0	0
Harvard Students of preceding academic year: ¹					
Members of graduate and professional schools	10	63	42	55	101
Undergraduates in good standing.....	52	435	337	128	153
Undergraduates with deficient record.....	16	92	0	87	29
Special Students, Arts and Sciences.....	5	9	8	7	11
Radcliffe Students of preceding academic year....	18	34	14	22	32
Students in Physical Education courses.....	180	200	0	233	284
Students from outside in general courses.....	443	909	246	1141	1384
	1246	1745	647	1716	2033
Names counted twice.....	1	16	0	7	11
	1245	1729	647	1709	2022

The composition of the group entitled "Students from Outside in General Courses" was as follows:

	1918	1919		1920	1921
		1st sess'n	2d sess'n		
Teachers and school officers:					
Professors and college instructors.....	19	60	23	75	95
Normal School teachers.....	8	5	0	11	18
High School teachers.....	82	137	12	177	205
Junior High School teachers.....	5	26	0	37	51
Grade school teachers.....	55	98	3	210	210
Endowed and private school teachers.....	18	47	13	67	105
Other teachers.....	15	43	1	27	58
Superintendents, supervisors, and principals..	53	61	3	96	152
Kindergartners.....	0	0	0	9	15
Total teachers and school officers.....	255	477	55	709	909
Men.....	88	139	35	182	300
Women.....	167	338	20	527	609
Percentage of men.....	34%	29%	63%	25%	33%
Students from other colleges.....	72	202	113	199	229
Students from preparatory schools.....	13	19	3	23	18
Other students.....	6	48	33	36	35
Other occupations than teaching.....	61	74	19	87	93
Occupations not given.....	36	89	23	87	100
	188	432	191	432	475
	255	477	55	709	909
Total students from outside, general courses..	443	909	246	1141	1384
Men.....	187	429	208	439	591
Women.....	256	480	38	702	793
Percentage of men.....	42%	47%	84%	38%	43%

In this body of "students from outside" there were:

	1918	1919		1920	1921
		1st sess'n	2d sess'n		
holders of A.B., S.B., or some equivalent degree...	84	245	80	295	492
holders of a higher degree.....	109	91	35	122	123
members of the Summer School in one of the preceding five years.....	73	100	58	161	213

¹ Not including members of the Reserve Officers' Training Corps.

The geographical distribution of this same group was as follows:

	1918	1919		1920	1921
		1st sess'n	2d sess'n		
New England States.....	268	563	160	727	874
Middle States.....	60	148	34	190	239
South Atlantic States.....	31	44	7	66	61
South Central States.....	24	12	6	15	39
North Central States.....	22	94	24	101	121
Western States.....	11	6	5	16	17
Foreign Countries.....	27	42	10	26	33
	<hr/> 443	<hr/> 909	<hr/> 246	<hr/> 1141	<hr/> 1384

II. COMMISSION ON EXTENSION COURSES

REPRESENTING

Harvard University	Boston University
Tufts College	Museum of Fine Arts
Mass. Institute of Technology	Wellesley College
Boston College	Simmons College
Massachusetts Board of Education	
School Committee of the City of Boston	

The following courses were offered in 1920-21. The table shows for each course the number of students in the course, and the number of certificates granted:

	Students	Certificates
Botany (Professor W. J. V. Osterhout).....	19	12
Economics:		
Elementary Economics (Professor E. E. Day).....	43	17
Economic Development of Europe and the United States (Dr. E. E. Lincoln).....	29	5
Principles of Sociology (Professor T. N. Carver).....	32	14
Programmes of Social Reconstruction (Professor T. N. Carver).....	30	14
Education:		
Administration of Elementary Schools (Mr. G. A. Mirick).....	28	17
Educational Measurement (Professor W. F. Dearborn).....	21	17
Educational Measurement (Advanced course) (Professor W. F. Dearborn).....	29	20
High School Problems (Professor A. H. Wilde).....	14	7
Supervision of Teaching in Elementary Schools (Professor H. W. Holmes).....	48	7
Teachers' Training Course in French (Professor L. J. A. Mercier).....	23	8
English:		
Elementary English Composition (Mr. F. W. C. Hersey).....	165	77
Advanced English Composition (Professor D. L. Sharp).....	157	45
English Drama (Professor E. C. Black).....	170	76
Johnson and His Club (Professor C. T. Copeland).....	231	22
Novel and Short Story (Professor E. C. Black).....	183	65
Oral English (Professor I. L. Winter).....	8	4
Public Speaking (Professor I. L. Winter).....	20	7
French (Professor James Geddes, Jr.):		
Elementary French.....	43	14
Second-year French.....	28	17
Intermediate French.....	30	8
Geography (Professor Elizabeth F. Fisher):		
Geography of Greater Boston.....	71	16
Industrial and Commercial Geography.....	73	39
Geology (Professor G. H. Barton):		
Dynamical and Structural Geology.....	23	15
Mineralogy.....	28	13
Government (Professor F. A. Cleveland).....	21	8
History (Professor H. M. Varrell).....	26	12
Appreciation of Music (Professor J. P. Marshall).....	135	32
School of Social Work (Mr. S. A. Queen, Director).....	3	3
Spanish (Professor E. F. Langley):		
Elementary Spanish.....	45	19
Second-year Spanish.....	16	9
Zoölogy (Professor G. H. Parker).....	15	8
	1807	647

The proportion of certificates to the total enrolment was thirty-five per cent. All the courses were accepted for the degree of A.A. by Harvard University, Radcliffe College, Tufts College, and Wellesley College.

III. SPECIAL STUDENTS

In 1920-21, ninety-one men were registered as Special Students under the Faculty of Arts and Sciences. These students entered one hundred and ninety full courses and one hundred and ninety-eight half-courses, of which ninety-four full courses and one hundred and thirty-seven half-courses were completed with the following grades: A, twenty-six; B, fifty-two; C, sixty-eight; D, fifty-four, E, thirty-one. Of the ninety-one students, sixty-one completed at least one course or half-course.

The registration and immediate supervision of the Special Students was in charge of Assistant Professor A. F. Whittem, Secretary of the Administrative Board for Special Students and University Extension.

The number of Special Students registered November 1, 1921, was sixty-four. Their average age was twenty-eight years. Nineteen were of foreign birth. By occupation six were teachers; sixteen have no other occupation than student. Twenty-one have enrolled in four or more courses.

IV. DEGREE OF ASSOCIATE IN ARTS

At Commencement, 1921, the degree of Associate in Arts was conferred by Harvard University on

James Arthur McCoy
Charles Endicott Patch

by Radcliffe College on

Katherine Seymour Day
Nellie Hilliard
Anna Marie Randall

JAMES HARDY ROPES, *Dean.*

RADCLIFFE COLLEGE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit the report of Radcliffe College for the academic year 1920–21.

The number of students in actual attendance during the year was 654.

Graduate Students.....	141
Seniors.....	105
Juniors.....	106
Sophomores.....	89
Freshmen.....	92
Unclassified Students.....	66
Special Students.....	55
<hr/>	
Total.....	654

These students came from 32 states and 10 countries.

The number of teachers taking courses without charge was 5. These teachers are admitted under the arrangement with a few public schools, by which, in return for an opportunity given Radcliffe students to teach in these schools in connection with their work in Education, a certain number of teachers are given free instruction in Radcliffe College. The director of the Radcliffe gymnasium and two mistresses of halls also took courses without charge. On teachers' rates 3 teachers were admitted to take Harvard courses, and 14 were admitted to Radcliffe courses.

In 1920–21, 71 students were admitted to 23 whole courses, and 94 students to 50 half-courses in Harvard University. Twenty-one professors directed the work in research of 44 students.

One hundred and forty-one graduate students registered during 1920–21, 105 of whom were from colleges other than Radcliffe. Fifty-two of these came from Mount Holyoke, Smith, Vassar, and Wellesley; 9 others from colleges in New England, 8 from the Middle States, 14 from the Middle West, 3 from the Far West, 9 from the South, and 10 from institutions outside of the United States — the Universities of Manitoba and British Columbia, Oxford, Edinburgh, Dublin, Paris, San Marcos, and New Zealand.

At Commencement, in June, 1921, the President of Radcliffe College conferred the degree of Associate in Arts on 3 candidates; the degree of Bachelor of Arts on 98 candidates, 24 *cum laude*, 4 *magna cum laude*, and 2 *summa cum laude*; the degree of Master of Arts on 30 candidates; the degree of Doctor of Science on one candidate:

Esther Wadsworth Hall, A.B. (*Smith College*) 1918, A.M. (*Radcliffe College*) 1920. Subject, Applied Biology; Special Field, Economic Entomology; Dissertation, Braconids Parasitic on Aphids and Their Life History.

The degree of Doctor of Philosophy on 6 candidates:

Rachel Blodgett, A.B. (*Wellesley College*) 1916, A.M. (*Radcliffe College*) 1919. Subject, Mathematics; Special Field, Analysis; Dissertation, The Determination of the Coefficients in Interpolation Formulae and a Study of the Approximate Solution of Integral Equations.

Eva Beatrice Dykes, A.B. (*Howard University*) 1914, A.B. (*Radcliffe College*) 1917, A.M. (*ibid.*) 1918. Subject, Philology; Special Field, English Philology; Dissertation, Pope and His Influence in America from 1715 to 1850.

Alice Helen Graustein, A.B. (*Radcliffe College*) 1917, A.M. (*ibid.*) 1918. Subject, Chemistry; Special Field, Organic Chemistry; Dissertation, The Action of Halogens and of Halogen Acids on a δ -Ketonic Nitrile.

Grace Warren Landrum, A.B. (*Radcliffe College*) 1898, A.M. (*University of Chicago*) 1915. Subject, Philology; Special Field, English Philology; Dissertation, Chaucer's Use of the Vulgate.

Dorothy Isabella Morrill, A.B. (*Mount Holyoke College*) 1914, A.M. (*University of Michigan*) 1915, A.M. (*Radcliffe College*) 1919. Subject, Philology; Special Field, English Philology; Dissertation, German Influence on Coleridge's Dramatic Criticism.

Grace Lee Nute, A.B. (*Smith College*) 1917, A.M. (*Radcliffe College*) 1918. Subject, History; Special Field, American History; Dissertation, American Foreign Commerce, 1825-50.

The Caroline I. Wilby Prize, for the best original work in any department, was awarded to Grace Lee Nute, for her Doctor's dissertation. The Captain Jonathan Fay Diploma and Scholarship, for the Senior who in the judgment of the Academic Board has shown the greatest promise, was awarded to Kathleen Ellen Hartwell. Miss Hartwell was also given honorable mention in the competition for the George B. Sohler Prize in Harvard College. The Phi Beta Kappa Prize of \$50, given to the ranking member of

the Junior class, was awarded to Dorothy Grace Currie. A scholarship from the appropriation made by Radcliffe College for study in the Marine Biological Laboratory at Woods Hole, in the summer of 1921, was awarded to Madeleine Parker Grant, a graduate student.

The Susan B. Anthony Scholarship, awarded by the Department of Political Science and Government at Bryn Mawr College for 1921-22, was awarded to Edna Alvina Cers, of the Class of 1921. A scholarship offered for 1921-22 by the French Department of Education and the Office National des Universités françaises for study in an École Normale was awarded to Anastasia B. Connor, A.B. 1919, and one for study in a Lycée to Marine Leland, of the Sophomore Class. A fellowship offered by the Committee for Relief in Belgium for advanced study in Belgium was awarded to Eleanor W. Allen, A.B. 1918, A.M. 1921.

Fourteen graduate scholarships, and seventy undergraduate scholarships were awarded for 1921-22.

\$285,100 was received during the year — new gifts and the completion of payments under bequests; and in addition \$3200 was received for scholarship and loan funds. Other gifts of furniture, engravings and photographs were received, beside a painting by Mrs. Sarah Wyman Whitman presented by Mrs. James Barr Ames, and two windows, the work of Mary H. Frye, '15-16, for Bertram and Eliot Halls, given by past and present residents of the halls and friends, in memory of Mrs. David P. Kimball.

The following figures give the results of the admission examinations in 1921:

Admitted without condition by Old Plan.....	27	
Admitted without condition by New Plan.....	48	
		75
Admitted with condition.....	11	
		—
Total admitted.....	86	
Refused admission by Old Plan.....	24	
Refused admission by New Plan.....	28	
		—
Total refused admission.....	52	
		138
Candidates counted twice.....	1	
		—
Total number of final candidates.....	137	

1920-21 marks the extension at Radcliffe of the tutorial system, which began in the departments of History, Government, and Economics with the class entering in 1914. The Sophomore Class, 1923, began upon the intensive work toward general examinations in all fields except Science and Mathematics, under the guidance of tutors and advisers.

The members of the Academic Board for the year 1920-21 were Professor K. G. T. Webster, the permanent chairman, and Professors E. L. Mark, E. H. Hall, H. W. Smyth, G. L. Kittredge, C. H. Grandgent, G. P. Baxter, W. S. Ferguson, and W. E. Hocking.

In December, 1920, changes in the Statutes were made which provide for five stated meetings of the Associates instead of three, a representation of six alumnae nominated by the Alumnae Association instead of three, membership as an Associate of the President of the Alumnae Association during her term of office, limitation of the term of service of the Associates to six years, with a necessary pause of one year before re-election, and the enlargement of the Council to eight members by the election of a second alumna.

Christina Hopkinson Baker, A.B. 1893 (Mrs. George P. Baker), was elected a member of the Council for seven years from 1921, and Judge Frederick Pickering Cabot was re-elected a member of the Council for eight years from 1921. Marion Churchill, A.B. 1906, was elected a member of the Associates for her term of office as President of the Radcliffe Alumnae Association; Mabel Harris Lyon, A.B. 1897 (Mrs. David G. Lyon), was elected a member of the Associates for six years from 1921, on the nomination of the Radcliffe Alumnae Association; Professor Charles Howard McIlwain was elected a member of the Associates for three years from 1921.

On September 1, 1921, Miss Marion Edwards Park, former Dean of Simmons College, took office as Dean of Radcliffe College.

CHRISTINA H. BAKER, *Acting Dean.*

APPENDIX

REPORT OF THE CHAIRMAN OF THE COMMITTEE ON ADMISSION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— In April, 1920, the Faculty had reduced the requirements for clear admission under the Old Plan from sixteen and one-half units to fifteen units, leaving unchanged the requirement of at least fourteen units' credit for admission with conditions.

At its meeting of January 18, 1921, the Faculty passed the following orders:

(a) That candidates for the degree of S.B. in Harvard College, or in the Engineering School, be allowed to substitute an examination for admission based on two years' preparation in Latin for an examination based on two years' preparation in French, German, or Spanish.

(b) That the credit allotted to Elementary Algebra in the examinations for admission be changed from one and one-half units to two units.

Prior to the passage of these votes, a candidate for admission who offered Latin was required to take the examination Latin Cp 3, a test calling for a preparation of at least three years in the secondary school. In many such schools, especially in the public high schools, it was found that candidates were arriving at the end of their course with only two years' work in Latin. Such candidates were naturally surprised to be told that although preparation covering an equal time spent in the study of French, German, or Spanish would be quite acceptable, to Latin an additional year's study must be devoted or no credit at all could be granted. Many teachers of Latin felt that this attitude tended to discourage the study of Latin in the schools, and amounted to a declaration by Harvard that Latin as a subject of study is inferior in educational value to French, German, or Spanish. The Committee felt that the candidate for the A.B. degree should continue to offer a three years' preparation in Latin, but that two years' study of that language should be accepted from the candidate for the degree of S.B.

For several years past, Harvard had been the only college, except Cornell and Wisconsin, allotting less than two units' credit to Elementary Algebra. In terms of school work, a unit is defined as four or five periods per week for one school year, constituting approximately one-quarter of a year's work, and occupying the equivalent of one hundred twenty sixty-minute hours. Since the time equivalent of two units or even more is found by most schools to be necessary for preparing pupils to pass the Board's examination in Algebra, the Faculty, on the recommendation of the Committee, increased the allotment of credit for that study from one and one-half to two units, thus bringing Harvard's requirements into conformity with those of most other colleges, and — what is even more important — accepting the schools' abundant experience as to the minimum time required for preparation in that study.

During the past year, the Committee have received and acted upon 1523 applications for admission:

Applications for admission to the Freshman Class.....	990
Applications for admission as Special Students.....	88
Applications for admission from other colleges.....	412
Applications for admission on grounds of War Service....	33
Total.....	1523

The detailed statement of the action of the Committee upon applications for admission to the Freshman Class is as follows: (For purposes of comparison, I give similar figures for 1919 and 1920).

Applications for Admission to the Freshman Class

	1919	1920	1921
Admitted without conditions (Old Plan)	167	203	309
“ “ “ (New Plan)	228	274	343
Total number admitted without conditions ..	395	477	652
Admitted with conditions (Old Plan)	132	122	121
Total number admitted	527	599	773
Refused admission (Old Plan)	91	68	80
“ “ (New Plan)	104	186	137
Total number refused admission.....	195	254	217
Percentage of refusal	26.1	29.1	21.9
Candidates in June who did not appear in September	24	14	..
Total number of final candidates	746	867	990

Of the candidates under the New Plan, 51 were reported as failing in all four examinations, 62 in three of the four, 23 in two of the four, and 1 in one. Of the 548 papers written by these men, only 28 were reported as at all satisfactory; and some of these were doubtful. Of the candidates refused admission under the New Plan in June, one succeeded in gaining admission under the Old Plan in September.

Of the 80 men refused admission by the Old Plan, 55 passed examinations counting less than twelve units; and one of these passed no examinations at all.

The figures for men seeking admission from other colleges are as follows:

	1919	1920	1921
Admitted as Unclassified Students.....	322	396	..
“ “ Freshmen.....	..	..	144
“ “ Provisional Sophomores.....	..	..	110
“ “ Provisional Juniors.....	..	..	30
“ to Engineering School.....	..	..	30
Rejected.....	82	85	98
	404	481	412

Of the men admitted from other colleges, 224 have actually registered; and these represent 104 different institutions and 47 states and foreign countries.

An examination of the colleges from which these men came shows that 139 students, or 62 per cent, came from colleges outside New England. A similar examination of the men admitted as Freshmen shows that only 321 students, or 32 per cent, came from outside of New England. (Tables showing the geographical distribution of both kinds of applicants will be found in the Appendix.)

Beginning with the academic year 1921-22, the Committee on Admission, with the consent of the Faculty, inaugurated certain changes in the method of accepting students from other colleges. A student may now be admitted without examination by transfer from another institution of college grade, provided he has been in residence at the other college one full year, and has completed the work in the last year there without conditions or deficiencies, and with satisfactory grades in most of his courses. At the time of his admission, he is assigned to registration in the Freshman Class or to provisional registration in the Sophomore or Junior Class; but no statement concerning a student's rating at admission is made until he can present an official transcript of his complete record in the other college. When the Committee is in possession of this transcript, the candidate's registration is determined in accordance with his combined school and college record — that is, we do not begin to count towards a Bachelor's degree college courses taken elsewhere until we have first made up for the applicant, from his school course (and from his college work if necessary) an admission record corresponding to the Harvard requirements for admission. If after subtracting from his college record whatever courses may be necessary to make a full admission record there are still courses to his credit — courses which are of solid educational worth and which have been passed with satisfactory grades — those courses will reduce the amount of work to be completed for a Harvard degree, provided the applicant has in his first year here a record which will promote him without deficiencies to the next higher class in Harvard College. If he has such a record, his provisional registration is confirmed, and he is told the exact number of courses that he must complete for a Harvard degree; but, if he has not, that fact will cause the Committee to discredit the work which he has done in the other college, and may mean either that he must remain another year in the class to which he was provisionally assigned or that he must drop back into a lower class. Whether a man is promoted or not, however, the rating given to him at the end of his first year here is regarded as final.

HENRY PENNYPACKER,

Chairman of the Committee on Admission.

AVERAGE AGES AT OPENING OF COLLEGE YEAR

OLD PLAN CANDIDATES

	1919	1920	1921
Admitted clear	18.08	18.24	18.29
Admitted with conditions	18.41	18.79	18.44
Refused admission	18.65	18.95	18.75

NEW PLAN CANDIDATES

Admitted	18.04	17.95	18.12
Refused admission	18.12	18.26	18.27

NEW PLAN APPLICANTS

	1919	1920	1921
Total number of school records presented	441	590	616
“ “ “ “ “ approved	376	541	571
“ “ “ men examined	332	460	480
“ “ “ “ admitted	228	274	343
“ “ “ “ refused on their school records	65	49	45
“ “ “ “ “ after examination	104	186	137

STUDENTS ADMITTED FROM OTHER COLLEGES. — GEOGRAPHICAL DISTRIBUTION OF MEN ACTUALLY REGISTERED, 1921-22

NORTH ATLANTIC DIVISION		NORTH CENTRAL DIVISION (<i>cont.</i>)	
Massachusetts.....	71	Illinois.....	7
Connecticut.....	9	Minnesota.....	6
Maine.....	3	Missouri.....	4
Rhode Island.....	2	South Dakota.....	1
Vermont.....	1	Kansas.....	4
	—	Michigan.....	4
Total New England..	86		— 44
New York.....	20		
New Jersey.....	5		
Pennsylvania.....	15		
	— 126		
SOUTH ATLANTIC DIVISION		SOUTH CENTRAL DIVISION	
North Carolina.....	1	Arkansas.....	2
District of Columbia..	2	Tennessee.....	2
Virginia.....	1	Texas.....	3
West Virginia.....	4	Oklahoma.....	2
Florida.....	1	Alabama.....	3
Georgia.....	2		— 12
	— 11		
WESTERN DIVISION		Hawaii.....	1
Colorado.....	3	Philippine Islands....	1
California.....	8	Porto Rico.....	1
New Mexico.....	2		— 3
Oregon.....	1		
	— 14		
NORTH CENTRAL DIVISION		FOREIGN	
Iowa.....	2	Bulgaria.....	1
Ohio.....	11	Canada.....	1
Indiana.....	3	China.....	3
Nebraska.....	2	Cuba.....	1
		Greece.....	2
		Honduras.....	1
		Japan.....	1
		Jerusalem.....	1
		Russia.....	2
		Turkey.....	1
			— 14
Total.....			
			224

TABLE SHOWING GEOGRAPHICAL DISTRIBUTION OF CANDIDATES, ADMITTED AND REFUSED, OLD AND NEW PLANS, ACCORDING TO SCHOOLS, IN 1919, 1920, AND 1921

	Public 1919	Public 1920	1921	Private and Endowed 1919	Private and Endowed 1920	1921	1919	1920	1921	Total 1920	1919	1920	1921
New England	231	272	312	286	319	357	517	591	669	591	71.6	69.3	67.5
North Atlantic, including New Eng- land	284	344	405	348	392	431	632	736	836	736	87.5	86.3	84.4
South Atlantic	9	10	8	6	12	16	15	22	24	22	2.1	2.5	2.4
Western	7	9	16	4	11	10	11	20	26	20	1.5	2.3	2.6
North Central	40	47	62	16	16	22	56	63	84	63	7.8	7.3	8.4
South Central	2	3	8	1	2	2	3	5	10	5	.4	.5	1.0
Foreign	2	0	1	1	4	5	3	4	6	4	.4	.4	.6
Insular Territories and Dependencies	1	0	4	1	2	0	2	2	4	2	.3	.2	.4
	345	413	504	377	439	486	722	852	990	852			

PERCENTAGES OF CANDIDATES FROM VARIOUS KINDS OF SCHOOLS IN 1919, 1920, AND 1921

	ADMITTED Old Plan			ADMITTED New Plan			Total		
	1919	1920	1921	1919	1920	1921	1919	1920	1921
Public Schools	27.7	25.9	33.7	64.0	58.2	62.3	43.5	40.6	46.4
Private or Endowed Schools	72.2	74.0	66.2	35.9	41.7	37.6	56.5	59.3	53.5
	REFUSED								
Public Schools	40.6	35.2	43.7	75.9	78.4	78.8	59.5	66.9	65.8
Private or Endowed Schools	59.3	64.7	56.2	24.0	21.5	21.1	40.5	33.0	34.1
	ADMITTED AND REFUSED								
Public Schools	30.7	27.5	35.2	67.7	66.4	67.0	47.8	48.4	50.7
Private or Endowed Schools	69.2	72.4	64.7	32.2	33.5	32.9	52.2	51.5	49.2

DEPARTMENT OF HYGIENE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— I have the honor to present the report of the Department of Hygiene for the academic year 1920-21. During the year this department undertook the physical examination of all new students in the Graduate School of Business Administration. This has made possible certain comparative studies between students in the college and students in one of the graduate schools. The results of these studies promise to be of considerable value when adequate data have been collected. Some of the preliminary observations have already been published.

With the assistance again of an appropriation from the United States Interdepartmental Social Hygiene Board the physical training program for Freshmen was continued. A more detailed reference to this work will be found in Mr. Geer's report which is appended.

The report of the medical adviser, which is also appended, takes up in statistical form the various illnesses in the University. Fortunately there are no serious epidemics to record. The Stillman Infirmary is being used to a greater extent each year and every attempt is made to reduce to a minimum the number of students who are sick in their rooms, even if it is only for a day.

The statistics show that on the whole comparatively little time was lost by students from their academic work. Expressed in terms in which these figures are usually given, namely the number of days lost per year, we find that among the undergraduate students in the college the amount of time lost by each student on account of illness would amount to a loss of less than seven days during the entire calendar year. As was pointed out in the last report, these figures embrace the unhealthiest months of the year and do not include the relatively more healthy summer months.

ROGER I. LEE,

Henry K. Oliver Professor of Hygiene.

REPORT OF THE MEDICAL ADVISER

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— I have the honor to present the following tables showing the illness among Harvard students for the academic year 1920-21.

It will be seen by "Table III" that there were no deaths at the Stillman Infirmary. Deaths elsewhere among Harvard students were as follows:

Milton Genensky, '22, November 19, 1920.

Francis Underwood Perry, '21, March 21, 1921.

Gerhard Christian August Fetzner, '23, April 21, 1921.

Barton Fay, '24, May 1, 1921.

The following gifts were made to the Stillman Infirmary:

Eighty books for the Theodore Myron Arms Memorial Library.

Dr. B. A. G. Fuller continued the gift of the annual subscription to nine current magazines.

Eight books from the library of Mr. J. S. Hoffman, 3G, deceased.

One copy daily of the *Crimson* from the *Crimson* management for the contagious ward.

One copy daily of the *Crimson* from Rev. Byrle J. Osborne.

The *Saturday Evening Post* from Mr. David Davis, 3L.

The *Theosophical Path* from Mrs. F. Collett.

Magazines from Mrs. Whiting.

One book from Mr. Osgood Hooker, '22.

Harvard University Gazette, The Harvard Graduates' Magazine, The Independent, The New Church League Journal from unknown givers.

MARSHALL H. BAILEY, *Medical Adviser*.

TABLE I. — ILLNESS REPORT, 1920-21

Diseases	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
Abscesses . . . . .	..	3	1	1	3	2	2	2	2	1	17
Appendicitis	1	2	3	2	3	2	1	4	1	1	20
Asthma . . . . .	..	1	2	..	1	1	..	..	..	..	5
Bronchitis . . . . .	..	7	9	10	9	5	17	5	2	..	64
Chicken pox . . . . .	..	1	..	1	1	1	2	1	..	..	7
Colds—unclassified . .	4	32	57	43	33	72	76	35	36	2	390
Coryza	1	5	12	5	3	2	4	5	3	..	40
Debility	1	2	17	8	13	11	25	9	15	1	102
Ear, of the	1	1	1	2	4	2	6	4	..	..	21
Encephalitis lethargica	..	..	..	..	2	..	..	..	..	..	2
Enteritis	2	10	8	7	6	3	10	7	5	..	58
Eye, of the . . . . .	..	8	19	16	13	10	28	12	18	3	127
Frontal sinus . . . . .	..	2	3	2	5	4	5	4	4	..	29
Heart, of the . . . . .	..	1	..	..	1	..	..	..	1	..	3
Indigestion . . . . .	..	5	9	4	10	4	8	4	15	1	60
Infantile paralysis . .	..	3	..	..	..	..	..	..	..	..	3
Infections, localized . .	2	25	13	7	12	7	7	9	9	5	96
Influenza	1	11	3	9	15	21	35	26	6	..	127
Insomnia . . . . .	..	2	3	..	2	2	1	1	4	1	16
Jaundice . . . . .	..	2	2	..	3	..	3	1	2	..	13
Laryngitis . . . . .	..	..	1	3	4	2	1	3	..	..	14
Measles . . . . .	..	..	..	..	2	1	..	..	3	..	6
Miscellaneous Med. . .	3	14	27	24	34	26	44	31	40	7	250
Miscellaneous Surg. . .	4	28	33	31	27	34	32	39	26	13	267
Mumps . . . . .	..	..	..	1	2	3	4	..	2	..	12
Neuritis . . . . .	..	..	4	1	5	1	2	1	..	..	14
Pharyngitis	1	4	6	5	11	2	4	3	4	2	42
Pleuritis . . . . .	..	..	1	..	..	1	3	1	2	..	8
Pneumonia . . . . .	..	..	..	..	3	2	3	1	1	..	10
Rheumatism . . . . .	..	1	2	2	1	3	1	1	2	..	13
Scarlet Fever . . . . .	..	..	..	..	2	..	1	..	..	..	3
Skin, of the	1	9	7	9	5	2	7	2	10	1	53
Teeth, of the . . . . .	..	5	9	7	3	8	7	4	5	1	49
Tonsillitis . . . . .	..	4	12	17	16	11	26	12	11	2	111
Tuberculosis . . . . .	..	..	..	..	1	..	1	..	1	..	3
No diagnosis . . . . .	..	10	10	3	8	4	6	9	7	..	57
Totals	22	198	274	220	263	249	372	236	237	41	2112
Visits	8	259	128	81	298	334	381	195	275	78	2037
Office consultations med.	28	299	319	190	348	319	457	330	347	122	2759
Office consultations surg.	20	181	173	111	170	125	156	129	178	63	1306
Total No. consultations	56	739	620	382	816	778	994	654	800	263	6102

Cases not seen by the Medical Adviser 670

TABLE II.—ILLNESS REPORT AS RELATED TO THE
DIFFERENT SCHOOLS

Diseases	College								Law	Grad. Arts and Sciences	G. B.	Other Grad. Schools	Totals
	1	2	3	4	E. S.	uC.	ocC.	Sp.					
Abscesses	3	4	4	..	1	1	..	..	2	1	1	..	17
Appendicitis	5	1	2	1	..	5	1	..	3	2	..	..	20
Asthma	1	..	1	3	..	..	..	..	..	..	..	..	5
Bronchitis	12	14	13	6	2	3	4	1	4	2	1	2	64
Chicken pox . . . . .	..	6	..	..	..	..	..	..	1	..	..	..	7
Colds—unclassified	106	79	86	40	8	18	13	1	19	10	5	5	390
Coryza	4	12	12	5	..	1	..	..	3	2	1	..	40
Debility	16	19	23	17	4	4	7	..	3	7	1	1	102
Ear, of the	4	3	6	2	..	1	..	2	3	..	..	..	21
Encephalitis lethargica	1	..	..	..	..	..	..	..	1	..	..	..	2
Enteritis	18	9	13	7	2	1	4	..	..	1	3	..	58
Eye, of the	25	32	33	11	2	5	6	..	5	3	5	..	127
Frontal sinus	11	4	6	4	..	1	2	..	1	..	..	..	29
Heart, of the	1	..	..	..	..	..	1	..	1	..	..	..	3
Indigestion	10	17	17	5	3	2	3	..	3	..	..	..	60
Infantile paralysis . . . . .	..	3	..	..	..	..	..	..	..	..	..	..	3
Infections, localized	15	14	18	7	..	10	1	..	22	5	1	3	96
Influenza	21	19	19	19	4	14	4	..	14	5	5	3	127
Insomnia	3	3	4	..	..	..	..	..	2	3	1	..	16
Jaundice	6	2	3	..	..	..	1	..	..	1	..	..	13
Laryngitis	4	2	3	2	..	1	1	..	..	1	..	..	14
Measles	2	1	1	..	..	..	..	..	2	..	..	..	6
Miscellaneous Med.	57	49	44	21	5	18	9	3	25	14	2	3	250
Miscellaneous Surg.	61	42	54	28	3	20	5	1	32	10	9	2	267
Mumps	1	2	..	..	..	1	..	..	5	2	1	..	12
Neuritis	3	2	4	..	1	..	2	..	..	1	1	..	14
Pharyngitis	9	11	9	3	1	1	1	..	3	2	1	1	42
Pleuritis . . . . .	..	1	1	1	..	..	..	..	1	1	3	..	8
Pneumonia	4	2	1	..	..	1	..	..	1	..	1	..	10
Rheumatism . . . . .	..	5	5	..	..	1	..	..	1	1	..	..	13
Scarlet Fever	3	..	..	..	..	..	..	..	..	..	..	..	3
Skin, of the	4	12	5	5	2	2	..	..	13	2	7	1	53
Teeth, of the	11	12	12	4	1	6	1	..	..	1	1	..	49
Tonsillitis	23	20	24	10	7	3	6	..	7	6	4	1	111
Tuberculosis . . . . .	..	..	..	..	..	1	..	..	1	..	1	..	3
No diagnosis	6	7	10	17	1	5	2	..	3	3	2	1	57
Totals	450	409	433	218	47	126	74	8	181	86	57	23	2112
No. of Students	621	579	610	341	214	279	102	77	944	505	442	..	
Percent. of Illness	72	70	70	63	21	45	73	10	19	17	12	..	
No. of Students at Infirmary	120	94	92	52	18	59	8	4	119	50	37	17	
Percent. of Infirmary Cases	19	16	15	14	8	21	7	5	12	9	8	..	

TABLE III

STILLMAN INFIRMARY

LIST OF CASES, 1920-21

Abscesses	17	Laryngitis	3
Appendicitis	14	Measles	4
Asthma	1	Miscellaneous Medical	46
Bronchitis	21	Miscellaneous Surgical	127
Colds—unclassified	96	Mumps	12
Coryza	10	Neuritis	4
Debility	20	Pharyngitis	15
Ear, of the	7	Pleuritis	5
Encephalitis lethargica	1	Pneumonia	9
Enteritis	10	Rheumatism	11
Eye, of the	2	Scarlet Fever	1
Frontal Sinus	1	Skin, of the	8
Indigestion	8	Teeth, of the	4
Infantile paralysis	1	Tonsillitis	38
Infections—localized	59	Tuberculosis	1
Influenza	87	No diagnosis	16
Insomnia	11	Total	677
Jaundice	7		

Room patients	136
Ward patients	254
Total	677

Discharged—well	413
“ relieved	254
“ not relieved	9
Transferred to another hospital	1
Total	677

Total number of hospital days	3830
Daily average	14.23

Total number of operations	44
Operations for appendicitis	9

PHYSICAL EDUCATION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of presenting the report of the Department of Physical Education for the year 1920-21.

PRESCRIBED PHYSICAL TRAINING FOR FRESHMEN

The program, consisting of participation in general athletic exercise and attendance at a course of hygiene lectures, adopted and put in operation for the first time during the year 1919-20, was continued along the same general lines in 1920-21. The majority of the members of the class again elected participation in exercise with members of the organized athletic squads. With the exception of a few men who presented adequate excuses the 53 members of the class who could not swim at the beginning of the year were taught to swim. In the dormitory competitions scheduled for all sports, Smith Halls won the all-round athletic championship during the autumn and winter seasons. Standish was the winner of the spring competition. The records of the various competitions were engraved on the J. Isidor Straus trophies installed in the common rooms at the dormitories.

A part of the medical and physical examination of Freshmen conducted in Dr. Lee's office was a classification of all men with reference to bodily mechanics. In the class of 1924, 29 per cent of the members were in the "D" group. These men either had very bad posture, or poor mechanical use of their feet. Most of such physical defects are the result of poor physical education and training. During the indoor season men in the "D" class reported in small groups at the Freshman Athletic Building for special instruction and corrective exercise. Of the 161 men reporting for corrective exercise, all but 11 gave evidence of a distinct improvement at the end of the year. Eighty-two were promoted to the C group; 64 to the B group and 4 to the A section. The marked improvement made by most men in the corrective exercise sections and the voluntary return of some of them when their prescribed schedule was completed gave evidence of the worthwhileness of this part of the Freshman program.

VOLUNTARY EXERCISE

A variety of exercise, including squash, handball, basketball, boxing, swimming, wrestling, fencing and gymnasium class work, was made available to upper classmen and students in the graduate schools. An attendance census of men using the exercise facilities was taken during the first week in March. The weekly attendance was 7,153. The corresponding record for the previous year was 6,703. During the past year 1,500 lockers were rented at the Hemenway Gymnasium, University Squash Courts and the Big Tree Swimming Pool in comparison with 1,288 rented during the previous year, and 953 representing the largest number rented in any one year (1909) during ten years previous to the war. Receipts from lockers were \$4,500 as against \$3,866 for 1919-20, and \$2,354 for 1909. In view of the fact that Freshman figures were excluded from the locker accounts, it is quite apparent there has been a rapid growth in the number of men who take regular exercise.

FACILITIES FOR EXERCISE

At the Hemenway Gymnasium a basement room was altered to provide space for five handball courts. This building, as well as the Squash Courts and the Big Tree Swimming Pool, was used to capacity. During part of the winter there was a waiting list of the names of men who wished to secure a locker at the Big Tree Swimming Pool. Although a great many Freshmen wanted to elect swimming for their exercise during the winter, the department was compelled, through lack of ample facilities, to restrict the use of the pool on Freshman days to men who were just learning to swim. Squash became such a popular form of exercise that the courts were in constant demand. To help meet the congestion at the Squash Courts Building, funds are needed to provide five or six additional squash courts. Squash is one of the best forms of indoor exercise because it provides a lot of vigorous physical activity in a short period of time. It is also one of the few sports that men engage in after leaving college.

With the exception of tennis, the facilities for outdoor exercise are quite ample at the present time. The seventeen tennis courts at Soldiers Field are, through the coöperation of the Harvard Athletic Association, reserved for Freshmen. They were used to capacity by men in four different sections meeting on Monday, Wednesday and Friday afternoons. Tennis, like squash, is one of the best general exercise activities. Additional courts ought to be provided, either on Soldiers Field, or on land in the vicinity of the Freshman dormitories.

The more general participation in wholesome physical exercise on the part of upper class students and men in the graduate schools continues to emphasize the fact that the present facilities for indoor exercise are inadequate. Men in the Freshman classes are getting the habit of regular physical exercise. Suitable provision for the exercise of that habit ought to be made available for students in their Sophomore, Junior, and Senior years.

EXTENSION ACTIVITIES

Harvard men occupying important school positions in this vicinity are constantly searching for candidates who are qualified to organize and direct or assist in the direction of physical education programs. Provision for the preparation of students along this line was made in the Graduate School of Education in the fall of 1920. Graduate students who take courses in the field of physical education have an opportunity for normal practice in connection with the prescribed physical training program for Freshmen, and the wide range of voluntary exercise activities organized for upper class students and men in the graduate schools.

The percentages representing the number of men in the Freshman Class graded A, B, C, or D in bodily mechanics were compared with the corresponding statistics for the groups of men from schools that sent six or more students to the class of 1924. These figures were sent to the head masters and physical directors of the schools concerned. The replies received from different school men, the requests for bodily mechanics charts and the conferences held with representatives from some of the schools indicated a real desire on the part of neighboring schools to improve this part of their physical training program.

Under Mr. Kelly's supervision a demonstration basketball game was played in the Hemenway Gymnasium at the beginning of the indoor season. Over 200 coaches, managers, and athletic directors, representing schools and colleges in New England, attended the meeting. The object of the game was to secure a uniform interpretation of the rules governing this important indoor sport. Mr. Kelly and Mr. Wachter, coach of the basketball team, also conducted similar demonstrations in four nearby cities.

WILLIAM H. GEER,

Director of Physical Education.

REPORT OF THE APPOINTMENT OFFICE

FACULTY OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Faculty of Arts and Sciences, which has charge of the Appointment Office, I have the honor of submitting to you the report of that office for the academic year 1920–21.

As the Appointment Office has no official connection with any Faculty in the University except the Faculty of Arts and Sciences, this report does not profess to cover appointments from the professional schools. Such appointments from those schools, however, as are reported to the Harvard Appointment Office are noted in this report. Such appointments to medical positions as are recognized in this report were made through the Division of Medical Sciences under the Faculty of Arts and Sciences and obviously do not represent the Medical School of Harvard University.

L. B. R. BRIGGS.

TO THE DEAN OF THE FACULTY OF ARTS AND SCIENCES:—

The accompanying chart shows that the report of the Appointment Office for 1920–21 has been made after a study of all the reports rendered during the years 1903–20 by the Appointment Office to the President of the University. The chart shows that the greatest variation in the number of positions filled in any given year does not exceed one hundred. The figure 129, for positions filled during 1903–04, evidently did not represent the total number of educational positions filled through the direct or indirect recommendation of the University. None of these figures, certainly not the most recent figure, 188, for 1920–21, will show the actual number of positions filled in this way. From 1910, since the University Appointment Office has been directed by the Chairmen of the Divisions and Departments of the Faculty of Arts and Sciences, in coöperation with the various graduate and professional schools, the variation of the figures, except in 1917–18, is comparatively slight. The figures on this chart may also suggest one obvious fact, that Harvard is only one of a number of universities placing their graduates, that we share the calls in any given year with other institutions throughout the United States. If conditions are normally wholesome it is not likely, therefore, that there would be any marked variation in figures during a given stretch of years, especially where the recommendation is naturally based on careful study of the requirements of the position, and the fitness of the candidate.

There is comparatively slight variation in the number of calls for men to fill positions of an educational nature in the years 1919–20 and 1920–21: 1286 requests in 1919–20, compared with 908 requests in 1920–21, a difference almost accounted for by the fact that the Graduate School of Education contributed 340 of the calls reported in 1919–20, whereas in the present year the report of the positions filled by that School is included in the general report of the Dean. One or two facts which the tables bring out may be of interest. For instance, in Ancient Languages, whereas

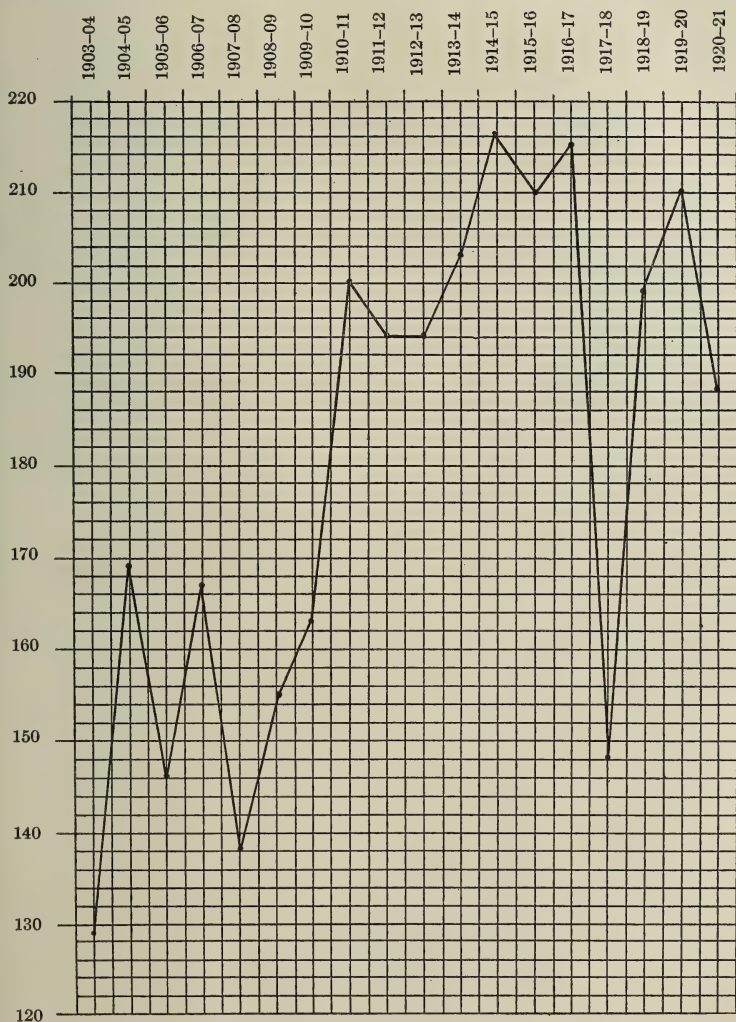
in 1919-20 we had 29 calls, in 1920-21 we had 52 calls; whereas in 1919-20 we were able to fill 4 Classical positions, in 1920-21 we filled 9. In the Department of English, in spite of the fact that we had a very small number of Masters of Arts registering for instructorships, and also that an unusually large number of Harvard men were either carrying on further graduate study or unable for one reason or another to be moved, we were able to place 51 men in positions when we had 176 calls, whereas in 1919-20 we were able to place only 43 men when we had 182 calls. The demand in Romance Languages is normal except that perhaps there is less emphasis on the need of teachers of Spanish alone than there has been in the last five years. The demand on the University for teachers of science and mathematics has been steadily growing, and the demand during the present year is far in excess of the supply of men. The difficulty in advancing scientific men hardly needs explanation. The salaries offered in most of the positions do not attract men of attainments who until the last year have been too eagerly sought for research in industrial firms. The same difference between demand and supply is true in a marked degree in the Division of History, Government, and Economics. We could place and place again almost any number of trained scholars in political theory, as in all the branches of historical and economic study. We can never meet the demand for teachers of ancient history or of European history. The Department of Social Ethics, besides the requests reported through the office of the Harvard Alumni Association, records 17 calls for men to fill specific positions requiring a training for social service, with salaries ranging from \$1200 to \$4200, and in addition, general requests for "as many good men as you can supply." The table shows how many men were placed.

The School of Business Administration reports 18 calls for teachers, and out of these, 2 positions filled. The Engineering School has not been able to keep track of their calls, but has reported 2 teaching positions filled.

As has been suggested before, the Appointment Office of the School of Education is, under the new organization, working now more independently of this central office than formerly. We are finding this separation actually a means of closer coöperation, since we definitely refer to the School all positions of an administrative nature in public school work, and confer with the School concerning various types of positions the control of the recommendation for which we may wish to keep in our own hands. We are feeling the effect at Harvard of the long struggle which Professor Hanus has made to present throughout the country the case for the systematic professional training of teachers. This office is finding it more and more difficult to enlist the interest of headmasters in seniors without experience, and without training through courses in Education. Practice teaching and study under professors in the School of Education often gives seniors their first chance to teach. To this same influence, we may, perhaps, trace a different attitude on the part of seniors going into teaching. In the University Appointment Office during certain seasons of the year a large part of our time is spent in talking over with prospective teachers what they plan to do, and in discussing with men who have already taught their individual problems and their reasons for discouragement or for encouragement in their work. The University Office is often

in a position to influence teachers who are unable to study at the University during the winter to enter the Summer School of Education, and by this means to gain advancement in their profession.

One difference in our registration which has been marked this year is that whereas in 1919-20 only 23 seniors registered with the Office, in 1920-21, perhaps on account of the depression in business, 44 seniors registered. Of the 188 positions filled, 13 are held by members of the class of 1921. Of the 44 seniors who registered, 1 has entered the Graduate



The decline in numbers from 210 in 1919-20 to 188 in 1920-21 is accounted for by the fact that the Graduate School of Education, which last year sent us the record of 23 positions, is this year making a separate report.

GROUP III											
HISTORY, GOVERNMENT, AND ECONOMICS											
History	67	13	..	..	..	2	..	..	1	..	16
with Government	..	2	..	..	..	..	..	..	..	..	2
with Athletics	..	..	..	..	1	..	..	..	..	..	1
Government	12	3	..	..	..	..	..	..	1	..	4
and Secretary	..	1	..	..	..	..	..	..	..	..	1
Current Events	..	..	..	..	..	..	..	..	..	..	1
Economics	54	8	..	1	..	..	..	..	..	1	12 [†]
with Sociology	2	2	..	..	..	..	..	..	..	..	2
Education	..	..	..	..	..	..	..	..	..	..	39
Administration	15	..	..	..	..	1	..	..	..	..	1
with Latin and French	..	..	..	..	..	1	..	..	..	..	1
with Mathematics and Science	..	..	..	..	..	..	..	..	..	..	1
Librarian	1	..	..	..	..	..	..	..	..	..	..
General Secondary	27	..	..	..	..	3	..	..	..	..	3
Physical Education and Athletics	26	1	..	..	..	1	..	..	..	..	9
Special Classes	1	..	..	..	..	..	..	..	..	..	3
Anthropology	4	1	..	..	..	..	..	..	..	1	3
GROUP IV											
PHILOSOPHY AND PSYCHOLOGY											
Philosophy	33	..	..	..	..	..	..	..	..	..	..
with Economics	..	1	..	..	..	..	..	..	..	..	1
Psychology	..	3	..	..	1	..	..	..	..	..	4
with Education	..	1	..	..	..	..	..	..	..	..	1
Social Ethics	17	..	..	..	..	..	..	..	..	..	4
Mathematics	79	4	..	..	4	..	..	..	2	1	10
Engineering	9 [†]	1	..	..	..	..	..	..	..	..	8
Medical Sciences	48	4	..	..	..	..	..	..	..	..	1
Business Science and Administration	12	..	..	..	..	..	..	..	..	..	4
Accounting	5	..	..	..	..	..	..	..	..	..	..
with Marketing	1	1	..	..	..	..	..	..	..	..	1
Total	908	..	..	..	..	..	..	..	..	..	188

* Of the 3 positions, 1 was filled by the Engineering School.

† Of the 12 positions, 1 was filled by the Graduate School of Business Administration.

‡ Number of calls on University Office. No record of calls received by Engineering School.

§ This figure must not be understood as a report from the Medical School, but from the Division of Medical Sciences.

So. CENTRAL DIVISION.	1	2	3	7	1	10	29	1	2	4	1	1	3	1	1	188	188
Alabama.....	1	1	1													1	1
Tennessee.....	1	1	1													2	2
Texas.....	2															2	2
No. CENTRAL DIVISION	8															10	10
Ohio.....	4															5	5
Indiana.....	8												1			9	9
Illinois.....	4															5	5
Michigan.....	5															4	4
Wisconsin.....	3												1			6	6
Minnesota.....	6															2	2
Iowa.....	2															1	1
Missouri.....	1															1	1
Kansas.....	1															1	1
North Dakota.....	1															1	1
WESTERN DIVISION	1															12	12
Idaho.....	1															1	1
Utah.....	1															1	1
Colorado.....	1															1	1
New Mexico.....													1			1	1
Arizona.....													1			1	1
California.....	5															5	5
Oregon.....				1												1	1
Washington.....	1															1	1
CANADA.....	9															9	9
NEWFOUNDLAND.....	1															1	1
Total.....	121		3	7	1	10	29	1	2	4	1	1	3	1	1	188	188

School, 2 have entered the Law School, 7 have gone into business, and 9 were placed in teaching by outside agencies or by friends. There were three reasons why we could not place the registered members of the class of 1921 who are not accounted for in these tables: their lack of training, their failure to make a high enough record in the studies which they offered to teach, and their late registration.

Twenty-five years have passed since the organization in 1896 of the original Appointment Committee, consisting of twenty-two members representing each Department of the Faculty of Arts and Sciences. One sentence in the original statement of the Committee is striking: the lists of teachers kept by the Appointment Office "include not only those who are unemployed at the time of registration, but also those who desire to be transferred to other positions." President Eliot never failed to keep before the Office the importance not only of placing a man for the first time, but of keeping in mind his continued advancement. The organization of the original Committee shows what conception the Faculty had of the importance of the undertaking, and the original documents of the office show what personal care and attention the various members of that Committee gave to the actual details of the work.

At the end of twenty-five years we find the Chairmen of the Divisions and Departments, who direct the work of the Office, and the Deans of the graduate and professional schools, no longer giving time and attention to the details of the work, but meeting representatives from other universities and young scholars who are candidates for advancement; always ready to be interrupted in the midst of their pressing administrative work for discussion of some small point which may seem to the Office staff important enough to warrant this interruption. This intimate relation between our Faculty and the Office, between our Faculty and the Faculties of other institutions, can be maintained only if the University Appointment Office is able to help the Faculty by becoming a trustworthy bureau of information. We are fortunate enough not only to have the good will of our own Faculty and the Faculties of many other universities, but in a marked degree, the good will of Harvard men everywhere. Thus we are in a position to obtain from Harvard scholars studying in the Widener Library, or visiting the Appointment Office in search of teachers, first-hand knowledge of the movements and publications of Harvard men throughout the country. We now need to increase our facilities for reaching the Harvard teachers who are less frequently in the neighborhood. We are often at a loss when really good opportunities come for men to teach in foreign countries. Yet scholars are needed to represent us abroad. With the number of Harvard men acting as headmasters in important private schools, we ought also to be able to place more of our young teachers in boarding and day schools. The present opportunity of sharing with the Office of the School of Education the responsibility for the recommendation of teachers, and in certain cases of throwing upon that School the responsibility which the University Appointment Office formerly sustained, ought to enable us, if the University will support our staff, to make this new development of a bureau of information a means of rendering the Office more valuable.

TABLE OF INSTITUTIONS

	Number of Calls Direct	Number of Calls through Agencies	Number of Posi- tions Filled	Number of Sala- ries Reported	Aggregate Salaries Reported
Universities and Colleges	537	35	121	97	\$214,300
Medical Schools	4	..	3	2	3,700
Divinity Schools	1	..	..	..	....
Technical Schools	33	11	7	6	13,025
Business and Industrial Schools ..	4	1	1	..	....
Normal Schools	15	..	..	..	....
Junior Colleges	3	..	..	..	....
Public Schools	62	25	10	6	10,516
Private or Endowed Schools	217	20	29	29	52,300
United States Naval Academy . . .	3	..	1	1	2,800
United States Geological Survey . .	1	..	1	1	715
Research Bureaus	2	..	2	1	120
Research (Private)	2	..	2	1	3,000
Public Health Service	3	..	..	..	....
State Board of Education	3	..	..	..	....
Educational Unions and Clubs . . .	5	..	4	4	3,800
Social Service Agencies	5	..	1	..	....
Municipal Social Service	1	..	1	..	....
Community Service	Indef. no.	..	..	..	....
Museums	5	..	3	..	....
Newspapers	1	..	1	1	1,040
Factories	1	..	1	1	525
Totals	908	92	188*	150	\$305,841

* Of the above 188 positions 23 were filled as the result of letters written at the request of the candidate or the institution ; 2 men have had to resign from positions ; 2 were filled by students in the Summer School.

We cannot close this report, which has attempted to look back over a long stretch of years, without expressing our continued appreciation not only of the services of our own Faculty, but of the coöperation and loyalty of the men registered, and of the courtesy and consideration shown us by the Faculties of the various universities, colleges, and schools with which we deal.

HARVARD APPOINTMENT OFFICE.

REPORT OF THE SECRETARY FOR STUDENT EMPLOYMENT

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— The following report, submitted by the Secretary of the Students' Employment Office, describes the work of that office for the year 1920-21.

The earnings for the year (exclusive of \$26,778.56 the amount made by students employed by the Athletic Association and by student waiters at the Harvard Union) were \$70,082.12, a decrease of \$7,744.84 over the year 1919-20. This decrease was probably due to the business depression of the spring and summer.

It is of interest to note that in the academic year 1914-15, which opened shortly after the beginning of the World War, the amount earned by students in term-time decreased by over \$18,000 from the previous year; and that, with the exception of the year 1916-17, there was a still further decrease until the end of the year 1918-19. In the past two years the earnings of students have increased annually by more than \$20,000 but are still far behind those for 1913-14.

Statistics with regard to the amount of money earned during the summer for the years mentioned do not show such a great decrease until the summer just closed when, because of financial conditions, they fell off by several thousand dollars.

During the past year four different men have had charge of the Office. At the end of October Mr. Morris Gray, Jr., who had been secretary for nine years, was obliged because of ill health to give up his work; and until July 1, 1921, Mr. David Little, Jr., and Mr. Charles Jackson were temporarily in charge.

	1919-20	1920-21
Men registered for Term-time work	521	536
Men who secured Term-time work of whom many secured more than one position	260	250
Men registered for Summer work	564	737
Men who secured Summer work of whom many secured more than one position	122	126

The division of registration among the Departments of the University is as follows:

	Term-time	Summer
College	325	443
Engineering School	23	23
Graduate School	56	93
Business School	36	16
Dental School	6	9
Divinity School	3	5
Law School	76	119
Medical School	3	22
Specials	8	7
Total	536	737

Total number of men registered in the Office, 1920-21, 1273, including 128 men who registered for both Term-time and Summer work.

TERM-TIME EMPLOYMENT. — SEPTEMBER 20, 1920-JUNE 25, 1921

Kinds of Employment	No. of Men Employed	Amount Earned	Average Amount Earned
Accountant.....	1	\$15.00	\$15.00
Agent.....	1	75.00	75.00
Boys' Club Leader.....	6	626.00	104.33
Caretaker.....	2	96.00	48.00
Cataloguer.....	1	17.89	17.89
Chauffeur.....	14	1,548.38	110.59
Choreman.....	33	397.20	12.04
Clerk.....	58	2,176.38	37.52
Coach.....	8	2,694.00	336.75
Companion.....	2	200.00	100.00
Computer.....	1	15.75	15.75
Corrector.....	5	315.00	63.00
Distributor.....	3	26.60	8.86
Draftsman.....	3	87.50	29.16
Editorial Work.....	1	500.00	500.00
Errands.....	4	7.85	1.96
Farmer.....	5	75.00	15.00
Gardener.....	10	94.12	9.41
Guide.....	13	129.25	9.94
Hotel Clerk.....	1	150.50	150.50
Janitor.....	6	815.60	135.93
Librarian.....	6	1,044.40	174.06
Miscellaneous.....	13	362.00	27.84
Monitors.....	158	1,976.75	12.54
Musician.....	15	219.00	14.60
Newspaper Work.....	1	224.00	224.00
Proctor.....	72	3,407.05	47.45
Publicity Work.....	1	120.00	120.00
Reader.....	5	115.85	23.17
Room for Services.....	6	450.00	75.00
Salesman.....	7	140.00	20.00
Statistical Work.....	3	55.25	18.41
Stenographer.....	7	750.54	107.22
Switchboard Operator.....	1	72.00	72.00
Translator.....	6	300.25	50.04
Tutor.....	30	7,280.57	242.69
Tutor Companion.....	5	10,775.00	2,155.00
Typewriting Bureau.....	31	1,865.69	60.19
Usher.....	21	66.00	3.14
Waiter.....	11	2,006.00	182.35
Total.....	577*	\$41,293.37	

* Many of these men secured more than one kind of employment.

SUMMER EMPLOYMENT. — JUNE 25, 1921–SEPTEMBER 26, 1921

Kinds of Employment	No. of Men Employed	Amount Earned	Average Amount Earned
Advertising	2	\$468.00	\$234.00
Agent	3	1,095.00	365.00
Bookkeeper	1	260.00	260.00
Camp Counselor	10	1,900.00	190.00
Caretaker	2	585.00	292.50
Chauffeur	3	918.50	306.16
Choreman	3	227.00	75.66
Clerk	6	602.00	100.33
Coach	3	1,200.00	400.00
Companion	4	1,152.50	288.12
Cook	2	760.00	380.00
Farmer	1	240.00	240.00
Guide	9	1,374.16	152.53
Hotel Employee	2	435.00	217.50
Investigation work	3	180.00	60.00
Miscellaneous	2	9.50	4.75
Proctor	13	105.50	8.12
Room for Services	3	137.50	45.83
Salesman	5	778.00	155.60
Secretary	3	820.00	273.33
Swimming and Sailing Instructor	4	1,751.00	437.75
Translator	1	100.50	100.50
Tutor	14	2,840.00	202.86
Tutor Companion	25	10,057.00	402.28
Typewriter	3	410.59	136.86
Waiter	2	382.00	196.00
Total	129*	\$28,788.75	

* Some of these men secured more than one kind of employment.

In addition to the preceding report the Harvard Union employed an average of 40 students each week as waiters.

Waiters' pay \$9,041.64

Estimated board 13,043.00

Total amount earned \$22,084.64

The Harvard Athletic Association employed 252 students as coaches, clerks, ticket takers, and waiters.

Total amount earned 4,693.92

\$26,778.56

GEORGE W. CRAM,
Secretary for Student Employment.

DEGREES CONFERRED, 1917-21

	1917	1918	1919	1920	1921
Bachelors of Arts	434	246	176	296	321
Bachelors of Arts out of course	49	26	56	100	68
Bachelors of Arts for Honorable Service in the War . . . . .	..	..	283	237	111
Bachelors of Science	81	22	23	41	57
Bachelors of Science out of course	10	8	10	14	5
Bachelors of Science for Honorable Service in the War . . . . .	..	..	38	66	22
Bachelors of Science in Civil Engineering	16	33	28	1	6
Bachelors of Science in Electrical Engineering	22	38	25	6	14
Bachelors of Science in Mechanical Engineering	17	47	40	12	14
Bachelors of Science in Sanitary Engineering	0	3	5	2	1
Bachelors of Science in Mining and Metallurgy	8	6	4	4	0
Bachelor of Science in Industrial Chemistry . . . . .	..	..	..	..	1
Bachelor of Science in Metallurgy . . . . .	..	..	..	..	1
Associate in Arts	5	1	0	1	2
Bachelors of Divinity	5	0	0	4	2
Masters of Divinity	7	5	3	1	4
Doctors of Theology	0	2	3	0	1
Bachelors of Laws	188	64	33	202	179
Bachelors of Laws out of course	19	15	11	16	16
Doctors of Law	2	3	2	5	9
Doctors of Law out of course	0	2	0	0	0
Doctors of Public Health	1	2	1	1	2
Doctors of Medicine	67	106	95	95	105
Doctors of Medicine out of course	0	0	3	1	0
Doctors of Dental Medicine	55	71	60	28	36
Doctors of Dental Medicine out of course	0	0	18	0	0
Masters of Arts	148	76	30	148	148
Doctors of Philosophy	67	45	24	49	49
Doctors of Science	2	4	1	3	3
Doctor of Engineering	1	0	0	0	0
Metallurgical Engineer	1	0	0	0	0
Mining Engineer	0	0	0	0	1
Masters in Architecture	6	2	5	2	4
Masters in Landscape Architecture	3	2	0	4	8
Masters in Forestry	0	1	0	1	0
Masters of Science in Botany	2	0	0	1	0
Master of Science in Silviculture . . . . .	..	..	..	1	0
Masters of Science in Zoölogy	1	1	0	4	3
Master of Science in Applied Biology	0	1	0	0	0
Masters of Science in Civil Engineering	4	1	0	1	1
Masters of Science in Electrical Engineering	6	3	0	1	0
Masters of Science in Mechanical Engineering	1	2	0	1	0
Masters of Science in Sanitary Engineering	2	0	0	0	0
Master of Science in Industrial Chemistry . . . . .	..	..	..	1	0
Masters of Science in Electric Communication Engineering . . . . .	..	..	..	..	6
Masters of Science in Sanitary and Municipal Engineering . . . . .	..	..	..	..	2
Masters of Science in Forestry	0	0	1	0	2
Masters of Science in Mining and Metallurgy	1	1	0	0	0
Masters in Business Administration	50	26	4	77	120
Masters of Education	64
Doctors of Education	5
Totals	1281	865	982	1427	1393

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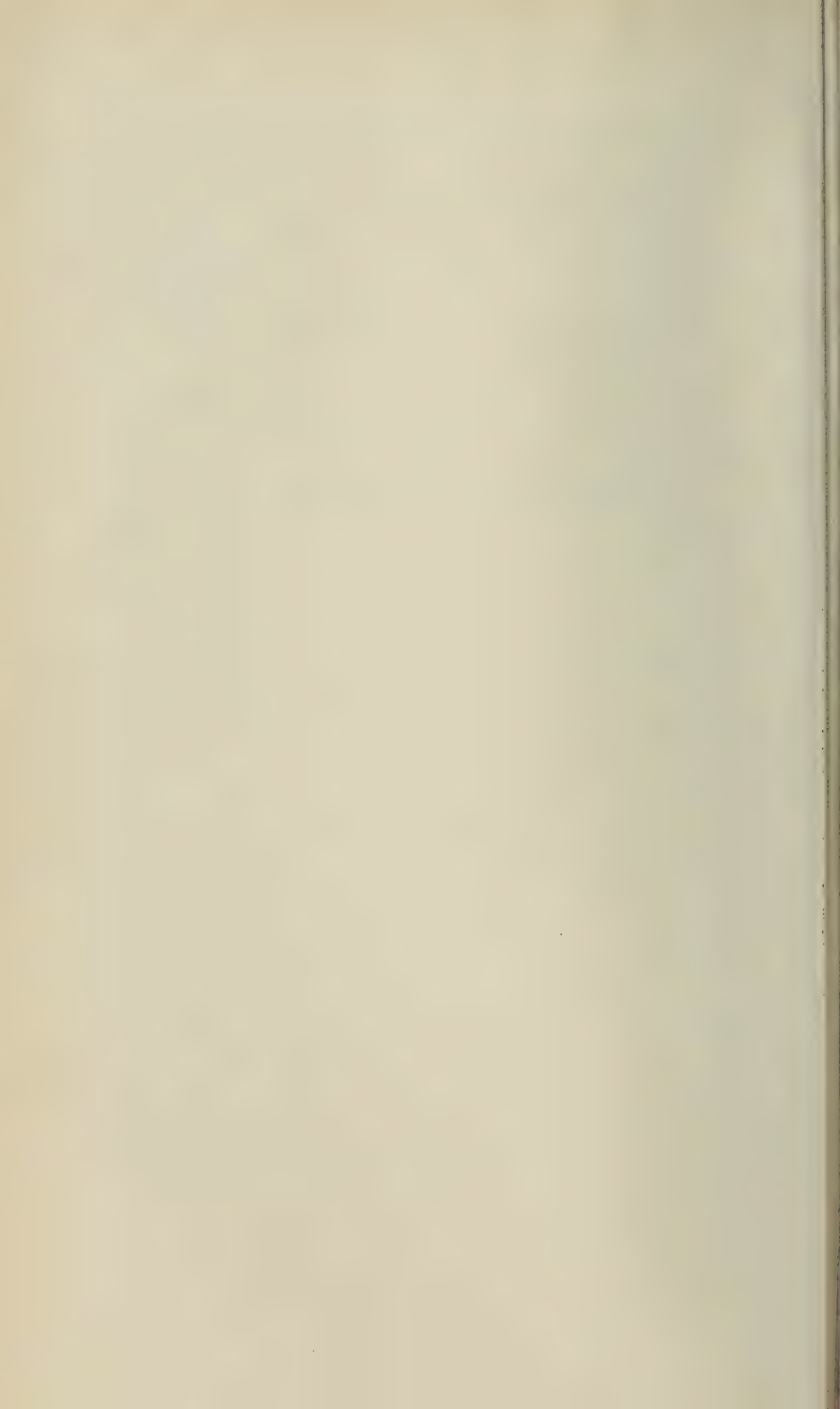
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Treasurer's Statement



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TREASURER'S STATEMENT FOR 1920-21

TO THE BOARD OF OVERSEERS OF HARVARD COLLEGE:—

The Treasurer submits the annual statement of the financial affairs of the University, for the year ending June 30, 1921.

The net income of the general investments for this period was divided at the rate of 5.40 per cent among the Funds to which these investments belong.

From the income of all bonds bought at a premium for general investments \$6,846.97 was credited to the various accounts concerned, and for special investments \$297.15, as the fair yearly repayment to make good the premiums at the maturity of the bonds.

CHARLES F. ADAMS, *Treasurer*

Boston, November, 1921.

EXHIBIT A**BALANCE SHEET**

June 30, 1921

ASSETS**CASH IN BANKS:**

Treasurer— General,	\$87,924.84	
Treasurer— Special— Schedule 1,	626.40	
Bursar,	<u>40,145.55</u>	\$128,696.79

ACCOUNTS RECEIVABLE:

Term Bills of January, 1921,	\$11,109.12	
Term Bills of June, 1921,	285,202.16	
Sundry accounts of Bursar's office,	40,398.40	
Sundry accounts of Treasurer's office	615,718.45	
Interest accrued,	<u>6,146.17</u>	958,574.30

INVENTORY:

Stores,	\$23,664.10	
Dormitory Furniture,	<u>15,525.04</u>	39,189.14

INSURANCE UNEXPIRED,		36,070.57
---------------------------------------	--	------------------

INVESTMENTS:

Securities— Special— Schedule 1,	\$5,800,188.54	
Securities— General— Schedule 2,	34,981,445.20	
Land and Buildings— Sp.— Schedule 1,	2,282,860.13	
Land and Buildings— Gen'l— Schedule 3,	<u>4,887,430.51</u>	47,951,924.38

GENERAL SUSPENSE; DEBIT BALANCES:

Schedule 5, Part II, page 179,	<u>780,257.52</u>	
		<u>\$49,894,712.70</u>

EXHIBIT A

BALANCE SHEET

June 30, 1921

LIABILITIES

ACCOUNTS PAYABLE:

Salaries and wages,	\$311,615.59	
Deposits and Advance Payments,	37,496.90	\$349,112.49

FUNDS AND GIFTS, Schedule 4, page 92.

Restricted uses, Income only available, . . .	\$36,090,800.65	
" " Principal and Income available, . . .	1,865,851.71	
Unrestricted uses, Income only available, . .	10,031,977.71	
" " Principal and Income avail- able,	216,630.50	48,205,260.57

GAINS AND LOSSES ON GENERAL INVESTMENTS SOLD, 501,554.67

INCOME ON GENERAL INVESTMENTS UNAPPORTIONED, 60,092.23

RESERVES FOR DEPRECIATION AND MAINTENANCE,
Exhibit D, page 14, 325,450.98

RESERVE TO COVER ADVANCES TO DEPARTMENTS (1921), 110,969.65

PROFESSORS' RETIRING ALLOWANCE FUND (1920) 861.39

GENERAL SUSPENSE; CREDIT BALANCES:

Schedule 5, Part I, page 178, 341,410.72

\$49,894,712.70

CONSOLIDATED STATEMENT OF INCOME AND EXPENDITURES

For the year ended June 30, 1921

INCOME

INCOME FROM FUNDS AND GIFTS

	Income from Funds and Gifts	General Income	
From SPECIAL INVESTMENTS,			
Interest and Dividends— Schedule 1, . . .	\$283,396.76		
Rents of Land and Buildings,	\$281,900.48		
Less Operating Expenses,	214,575.56		
Net Income— Schedule 1,	67,324.92		
From GENERAL INVESTMENTS,			
Interest and Dividends on			
Securities— Schedule 2,	\$1,794,921.99		
Bank Balances,	8,176.83		
Advances to Departments and Miscellaneous,	5,386.39	1,808,485.21	
Rents of Land and Buildings,	\$353,421.64		
Less Operating Expenses,	68,767.53		
Net Income— Schedule 3,	284,654.11		
Gifts for Immediate Use— Exhibit F,	775,787.18		
Miscellaneous income included in receipts for departmental and non-departmental activities,	159,127.84		
	\$3,378,776.02		\$3,378,776.02

GENERAL INCOME

Tuition Fees,	\$1,186,056.00		
Laboratory Fees,	34,952.88		
Other Fees,	43,870.89		
Gross Rents of Dormitories not in Special or General Investments,	174,464.89		
Miscellaneous Income,	918,239.41	2,357,840.07	
Total Income for year,	\$3,378,776.02	\$2,357,840.07	\$5,736,616.09
Income of Funds and Gifts transferred to General Income,	971,156.80	971,156.80	
	\$2,407,619.22	\$3,328,740.87	
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,	207,140.81		207,140.81
Payments carried to General Suspense,	27,038.86	839.65	27,878.51
Credit balances in General Suspense used,		27,146.85	27,146.85
Operating Deficit for the Year, Schedule 40,		338,305.32	338,305.32
	\$2,641,798.89	\$3,695,032.69	\$6,337,834.88

EXHIBIT B

CONSOLIDATED STATEMENT OF INCOME AND EXPENDITURE

For the year ended June 30, 1921

EXPENDITURE

	Income from Funds and Gifts	General Income	Totals
Administrative Purposes,	\$5,964.45	\$304,791.49	\$310,755.94
Expenditures of Instruction,	843,174.46	1,919,250.33	2,762,424.79
Expenditures for Activities,	1,033,284.10	976,467.30	2,009,751.40
Expenditures for	220,296.38	19,325.21	239,621.59
Expenditures for land and equipment of dormitories not in Treasurer's Investments,		39,231.27	39,231.27
Expenditures for building and operating expenses of dormitories not in Treasurer's Investments,		143,196.16	143,196.16
Expenditures for land and equipment of buildings for general purposes, building and operating expenses of land and buildings for general purposes,		51,607.71	51,607.71
		212,797.06	212,797.06
Expenditure for year,	\$2,102,719.39	\$3,666,666.53	\$5,769,385.92
Income not used and added to Funds and Gifts,	475,070.46		475,070.46
Income on general investments unapportioned,	34,362.12		34,362.12
Income carried to General Suspense,	29,646.92	28,366.16	58,013.08

\$2,641,798.89 \$3,695,032.69 \$6,336,831.58

INCOME AND EXPENDITURE

For the year ended

	Income	Expenditure	Balances	
			Sundry Credit Balances	Sundry Debit Balance
University (Sch. 6),	\$449,931.52	\$291,903.18	\$158,578.34	\$550
College, including Graduate School of Arts and Sciences (Sch. 7), .	1,550,624.93	1,740,100.47	137,392.41	326,867
Library (Sch. 8),	112,635.24	225,298.06	10,072.79	122,735
Summer Schools (Sch. 9),	81,656.37	71,641.65	10,214.72	200
Engineering School (Sch. 10), . .	190,770.74	227,485.25	3,125.84	39,840
Graduate School of Business Administration (Sch. 11),	259,773.90	250,338.14	16,175.73	6,739
Schools of Architecture and Landscape Architecture (Sch. 12), . .	82,452.79	75,763.86	15,267.07	8,578
Divinity School (Sch. 13),	61,574.51	68,791.25	2,382.02	9,598
Law School (Sch. 14),	249,028.83	231,550.52	23,166.09	5,687
Graduate School of Education (Sch. 15),	95,063.50	102,463.99	32.41	7,432
Medical School (Sch. 16),	617,321.69	568,177.08	102,432.11	53,287
Medical School, Courses for Graduates (Sch. 17),	67,295.80	69,086.18	15,147.47	16,937
Medical School, Heat and Power Plant (Sch. 18),	190,575.08	190,575.08	.....	.....
Collis P. Huntington Memorial Hospital (Sch. 19),	160,752.38	112,729.32	82,198.38	34,175
Dental School (Sch. 20),	80,685.46	118,513.62	1,263.61	39,091
Bussey Institution (Sch. 21), . . .	57,116.18	66,736.51	2,169.95	11,790
Arnold Arboretum (Sch. 22), . . .	75,965.41	55,506.52	20,710.34	251
Botanic Garden (Sch. 23),	5,397.63	7,655.13	.....	2,257
Botanical Museum (Sch. 24), . . .	3,992.58	5,016.93	22.58	1,046
Gray Herbarium (Sch. 25),	21,159.06	18,603.97	2,680.15	125
Observatory (Sch. 26),	63,125.13	50,064.29	14,597.07	1,536
Blue Hill Meteorological Observatory (Sch. 27),	6,862.64	9,158.83	.....	2,296
Museum of Comp. Zoölogy (Sch. 28),	50,847.08	43,239.07	7,608.01	.....
Peabody Museum of American Archaeology and Ethnology (Sch. 29),	17,815.59	21,874.26	1,208.24	5,266
Semitic Museum (Sch. 30),	2,239.06	3,731.12	108.00	1,600
Germanic Museum (Sch. 31), . . .	9,811.59	3,077.11	6,734.48	.....
William Hayes Fogg Art Museum (Sch. 32),	40,485.37	56,162.34	9,903.38	25,580
Appleton Chapel (Sch. 33),	13,555.77	13,935.63	.....	.....

Amounts carried forward, . . \$4,618,515.83 \$4,699,179.36 \$643,191.19 \$723,474.8

EXHIBIT C

BY DEPARTMENTS

June 30, 1921

Disposition of Credit Balances		Disposition of Debit Balances			
Income not used and added to Funds and Gifts	Income carried to General Suspense	Accumulated Income of Funds and Gifts used to cover deficits of restricted Income	Payments carried to General Suspense	General Suspense Credit Balances used	Deficits
\$158,546.34	\$32.00	\$550.00	.....	.....	.....
122,237.14	15,155.27	41,955.92	\$5,897.33	.....	\$279,014.70
9,448.24	624.55	20,167.15	5,001.19	.....	97,567.27
631.91	9,582.81	200.00	.....	.....	.....
3,125.84	.....	365.83	.....	.....	39,474.52
13,964.11	2,211.62	4,134.92	2,605.05	.....	.....
15,267.07	.....	5,194.62	.....	.....	3,383.52
2,382.02	.....	663.44	.....	\$8,935.32	.....
19,616.59	3,549.50	5,687.78	.....	.....	.....
32.41	.....	7,255.19	.....	.....	177.71
101,973.41	458.70	26,866.14	10,398.56	.....	16,022.80
.....	15,147.47	.....	.....	16,937.85	.....
.....
82,198.38	.....	34,175.32	.....	.....	.....
1,263.61	.....	85.00	.....	.....	39,006.77
2,169.95	.....	113.53	1,203.77	.....	10,472.98
20,710.34	.....	251.45	.....	.....	.....
.....	.....	.....	.....	.....	2,257.50
22.58	.....	.....	.....	1,046.93	.....
.....	2,680.15	125.06	.....	.....	.....
14,597.07	.....	1,536.23	.....	.....	.....
.....	.....	2,122.34	.....	.....	173.85
3,544.42	4,063.59	.....	.....	.....	.....
1,208.24	.....	5,040.16	.....	226.75	.....
108.00	.....	1,600.06	.....	.....	.....
4,427.69	2,306.79	.....	.....	.....	.....
9,903.38	.....	24,947.91	632.44	.....	.....
.....
\$587,378.74	\$55,812.45	\$183,038.05	\$25,738.34	\$27,146.85	\$487,551.62

INCOME AND EXPENDITURE

	Income	Expenditure	Balances	
			Sundry Credit Balances	Sundry Debit Balances
Amounts brought forward, . .	\$4,618,515.83	\$4,699,179.36	\$643,191.19	\$723,474.19
Phillips Brooks House (Sch. 34), .	6,390.52	5,617.66	1,145.36	372.19
Hemenway Gymnasium, Freshman Ath. Bldg., Univ. Squash Courts, and Big Tree Swimming Pool (Sch. 35),	4,513.00	23,806.48	.....	.....
Stillman Infirmary (Sch. 36), . . .	29,204.59	36,298.93	.....	121.19
Harvard Union (Sch. 37),	150,536.46	150,536.46	.....	.....
Harvard Dining Halls (Sch. 38), .	499,292.83	499,292.83	.....	.....
	<u>\$5,308,453.23</u>	<u>\$5,414,731.72</u>		
<i>Less</i> Appropriations to departments, deducted to show the net income and expenditure,	127,840.65	127,840.65		
	<u>\$5,180,612.58</u>	<u>\$5,286,891.07</u>		
<i>Less</i> Deficits included in the above expenditures of other departments and deducted to show the net ex- penditure, Appleton Chapel, . . . \$379.86 Hemenway Gymnasium, 19,293.48 Stillman Infirmary, . . 6,972.63		26,645.97		
	<u>\$5,180,612.58</u>	<u>\$5,260,245.10</u>	<u>\$644,336.55</u>	<u>\$723,969.19</u>
<i>Less</i> Balance of University account applied to the Operating Deficit. .	.....	.....	149,246.30	149,246.30
Total for Departments,	<u>\$5,180,612.58</u>	<u>\$5,260,245.10</u>	<u>\$495,090.25</u>	<u>\$574,722.89</u>
Non-Departmental Funds and Gifts for Special Purposes (Sch. 39), .	521,385.39	509,140.82	37,993.29	25,748.19
	<u>\$5,701,997.97</u>	<u>\$5,769,385.92</u>	<u>\$533,083.54</u>	<u>\$600,471.08</u>
Income received by Departments and Activities, above,	\$5,701,997.97			
Income unapportioned,	34,362.12			
Total Income, Exhibit B, . . .	<u><u>\$5,736,360.09</u></u>			

BY DEPARTMENTS *(continued)*

Disposition of Credit Balances		Disposition of Debit Balances			
Income not used and added to Funds and Gifts	Income carried to General Suspense	Accumulated Income of Funds and Gifts used to cover deficits of restricted Income	Payments carried to General Suspense	General Suspense Credit Balances used	Deficits
\$587,378.74	\$55,812.45	\$183,038.05	\$25,738.34	\$27,146.85	\$487,551.62
1,145.36	.....	372.50	.....	.....	.....
.....
.....	.....	121.71	.....	.....	.....
.....
.....
\$588,524.10					\$487,551.62
149,246.30					149,246.30
\$439,277.80	\$55,812.45	\$183,532.26	\$25,738.34	\$27,146.85	\$338,305.32
35,792.66	2,200.63	23,608.55	2,140.17	.....	.....
\$475,070.46	\$58,013.08	\$207,140.81	\$27,878.51	\$27,146.85	\$338,305.32

EXHIBIT D

RESERVES FOR DEPRECIATION AND MAINTENANCE

Depreciation, Freshman Halls	\$34,009.57	
Depreciation, Medical Heat and Power Plant . .	132,717.57	
Depreciation, Treasurer's Investments	4,605.62	
Maintenance, Freshman Halls	50,267.37	
Maintenance, Yard Heat Tunnel	1,775.46	
Maintenance, Medical Heat and Power Plant . .	35,261.48	
Maintenance, Buildings	46,813.91	
Changes in Electric Service	20,000.00	\$325,450.98

GIFTS FOR CAPITAL

For the year ended June 30, 1921

ESTABLISHING NEW FUNDS OR INCREASING OLD ONES

Arnold Arboretum:

Endowment Fund:

Frederic G. Barry	\$62.50	
Charles P. Curtis	250.00	
Charles L. Hutchinson	2,000.00	
Marklove Lowery	50.00	
Henry H. Richardson	60.00	
Martin A. Ryerson	2,000.00	
Philip S. Sears	500.00	
Richard D. Sears	400.00	
William P. Wharton	1,000.00	\$6,322.50

Maria A. Evans (Mrs. Robert D. Evans),
Estate of:

Additional, on account of her bequest
of \$25,000 4,425.00

"Massachusetts Society for Promoting Agri-
culture Fund":

Massachusetts Society for Promoting Agri-
culture 500.00

Astronomical Observatory:

Edward C. Pickering, Estate of:

On account of his residuary bequest
(restricted until a certain specified
time) "for the Astronomical Obser-
vatory." 2,819.98

Graduate School of Business Administration:

Anonymous Loan Fund:

Anonymous 5,000.00

College:

"Edward R. Bacon Art Scholarships":

Virginia Purdy Bacon (Mrs. Walter Rath-
bone Bacon), Estate of:

On account of her bequest of \$50,000.
to Harvard University "to be used in
establishing two graduate scholar-

Amount carried forward, . . . \$19,067.48

Amount brought forward, . . .		\$19,067.48
College (<i>continued</i>):		
"Edward R. Bacon Art Scholarships"		
(<i>continued</i>):		
ships in painting to be called the Edward R. Bacon Art Scholarships; the incumbents to be designated by said University under such regulations as it may from time to time prescribe, to hold such scholarships for not less than two years and while holding such scholarships to study painting under the direction of said University preferably in Europe;":		
Cash	\$640.00	
Securities valued at	39,981.76	40,621.76
Jeremy Belknap Prize:		
Philippe B. Marcou		1,000.00
"Class of 1883 Fund":		
Twenty-fifth Anniversary Fund:		
Additional		500.00
"Dana Scholarship of the Class of 1852":		
A. Arthur Jenkins		45.00
Thomas Jefferson Coolidge, Estate of:		
His bequest "to be added to the Thomas Jefferson Coolidge Fund for research in physics at the Jefferson Physical Laboratory, and only the income thereof to be employed;". . .		20,000.00
"Charles Dexter Memorial Fund":		
Miss Annie L. Dexter, Estate of:		
Additional, on account of her residuary bequest		6,577.54
"William Henry Gove Scholarship Fund":		
Mrs. William Henry Gove:		
"The income of this fund shall be awarded from time to time as a scholarship or scholarships to students specializing in Greek."		6,000.00
Amount carried forward, . . .		\$93,811.78

Amount brought forward, . . . \$93,811.78

College (*continued*):

"Hodges Scholarship":

A. Arthur Jenkins:

Additional 147.50

"Augusta P. Hope Fund":

Dave H. Morris and Mrs. Morris:

Restricted until a certain specified time, after which "the income thereof (shall be used) for the benefit of the Department of Music, preferably for the purchase of books, music and instruments.":

Securities valued at 3,169.68

Thomas G. Mower Memorial:

Miss Sara E. Mower, Estate of:

Additional, on account of her bequest 24,819.43

Mary E. Paine (Mrs. John Knowles Paine),
Estate of:

To be added to "The John Knowles Paine Fellowships in Music" established by her during her lifetime . . .

32,344.72

William H. Schofield, Estate of:

His bequest "The income only to be used for the maintenance of the Schofield Rooms (38 Gray's Hall) which are to be devoted to the purposes of University hospitality, preference being given to visiting professors from other institutions or distinguished guests of the University . . ." . . .

10,000.00

"The Frederick Sheldon Fund":

Amey Richmond Sheldon (Mrs. Frederick Sheldon), Estate of:

Additional:

Cash \$3,189.89

Securities valued at 7,000.00 10,189.89

Amount carried forward, . . . \$174,483.00

Amount brought forward, . . . \$174,483.00

College (*continued*):

"Somerville Scholarship":

George Lewis Baxter:

"to found a scholarship for a student in his freshman year at Harvard College recommended by a public preparatory school of Somerville, Mass.":

Securities valued at 5,242.80

"The Major Harrison Briggs Webster, U. S. A. Scholarship":

Mrs. Andrew G. Webster:

"in memory of her Son, Harrison Briggs Webster of the Class of 1905, Regimental Surgeon of the 47th U. S. Infantry, 4th Division, A. E. F., awarded a Citation 'For unusually conspicuous and meritorious services', and a second Citation, with the Distinguished Service Cross, 'For extraordinary heroism in action'. Killed in action in the Meuse-Argonne October 13th, 1918.

This Scholarship is to be awarded to sons of members of the Class of 1905, Harvard College. The award to be made by the CLASS COMMITTEE of the Class of 1905 to the applicant most worthy of such aid, and is tenable for one year only.

In case there is no application or award made in any year, then the Scholarship shall be awarded for that year only by the ADMINISTRATION BOARD of the MEDICAL SCHOOL to a needy student, who shall have shown himself to be of sound principles and marked ability."

5,000.00

"Jerome Wheelock Fund":

Jerome Wheelock, Estate of:

Additional, on account of his bequest of \$100,000

10.00

Amount carried forward, . . .

\$184,735.80

Amount brought forward, . . .	\$184,735.80
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College (*continued*):

Alfred Tredway White, Estate of:

To be added to the "Alfred Tredway White Endowment for the Department of Social Ethics", established by him during his lifetime:

Securities valued at	44,250.00
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Dental School:

Endowment Fund:

Charles H. Abbot	\$25.00	
Louisa A. Beal (Mrs. James H. Beal), Estate of	500.00	
George H. Monks	225.00	
Lester H. Monks	100.00	
Alfred P. Rogers	50.00	
Charles E. Stevens	25.00	925.00

Harvard Dental Alumni Endowment:

Henry C. Spencer	\$25.00	
Charles E. Stevens	25.00	50.00

Dental School Endowment of the Class of 1895:

J. Austin Furfey	\$75.00	
Robert T. Moffatt	125.00	200.00

Maria A. Evans (Mrs. Robert D. Evans),
Estate of:

Additional, on account of her bequest of \$25,000	4,425.00
----------------------------------------------------------------	----------

"The Eugene Hanes Smith Scholarship":

Established by the Harvard Dental Alumni Association, in recognition of Eugene Hanes Smith's twenty-five years of service to the Dental School, the income to be "awarded annually to a worthy and meritorious student in the third or fourth year of the Dental School, who has been a student in regular standing during the first and second years.":

Amount carried forward, . . .	\$234,585.80
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Amount brought forward, . . .		\$234,585.80
Dental School (<i>continued</i>):		
"The Eugene Hanes Smith Scholarship "		
(<i>continued</i>):		
Benjamin H. Codman, in memory of his		
father, John T. Codman	\$25.00	
Harvard Dental Alumni Association . . .	2,300.00	2,325.00
		<hr/>
Engineering School:		
Harvard Engineering Society Scholarship:		
Harvard Engineering Society		200.00
"Gordon McKay Endowment":		
Gordon McKay, Estate of:		
Additional, on account of his residuary		
bequest		148,287.83
Gray Herbarium:		
Asa Gray Memorial Fund:		
Emile F. Williams		100.00
Law School:		
"James and Augusta Barnard Law Fund":		
Lydia Augusta Barnard (Mrs. James		
Munson Barnard), Estate of:		
Additional, on account of her bequest		
of \$60,000		264.55
Endowment Fund:		
Balance of sundry subscriptions . .		149.15
Shelton Hale Memorial Scholarship:		
Mrs. Shelton Hale:		
"in memory of my husband, Shelton		
Hale, LL.B. 1916, to record his de-		
votion to the institutions and pur-		
poses of the Harvard Law School and		
his unfailing interest and sympathy		
with the efforts of young men to ob-		
tain a legal education under the stress		
		<hr/>
Amount carried forward, . . .		\$385,912.33

Amount brought forward, . . . \$385,912.33

Law School (*continued*):

Shelton Hale Memorial Scholarship (*continued*):

of financial difficulties . . . The
scholarship shall be awarded annually
. . . to a first year student of the Law
School . . .”:

Cash	\$655.26	
Securities valued at	3,735.32	4,390.58

Library:

George Schünemann Jackson Fund:

Charles Jackson	Robert A. Jackson
George Schünemann Jackson	Mrs. Ralph B. Williams

“We desire that the income . . . shall
be used for the purchase and main-
tenance of books and that preference
should be given to those treating of
social welfare and service, moral phi-
losophy, civics and like subjects.”:

Cash	\$3,715.93	
Securities valued at	35,349.41	39,065.34

“The George Nichols Fund”:

John W. T. Nichols, Estate of:

His bequest “to establish a fund to
be called, in memory of my father,
a member of the class of 1828, ‘The
George Nichols Fund’, the annual
income thereof to be devoted to the
purchase of books on English litera-
ture for the library of Harvard
College.” 5,000.00

Evert Jansen Wendell, Estate of:

Additional, on account of his bequest .	799.00
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Medical School:

Joseph R. DeLamar, Estate of:

Additional, on account of his residuary bequest	777,772.46
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Amount carried forward, . . .	\$1,212,939.71
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Amount brought forward, . . .	\$1,212,939.71
Medical School (<i>continued</i>):	
Rebecca A. Greene (Mrs. Francis B. Greene), Estate of:	
Additional, on account of her residuary bequest	125.00
Elliot C. Lee, Estate of:	
His bequest of \$50,000, plus accrued interest, "the income alone to be used for the benefit of the Harvard Medical School . . ."	50,750.00
James Ewing Mears, Estate of:	
His bequest of \$10,000, less collateral tax, "the income from which I direct shall be used each year for the work of the Cancer Commission of Harvard University."	9,295.01
His bequest of \$5,000, less collateral tax, "the income from which I direct shall be used in maintaining the Scholarship known as 'The James Ewing Mears, M.D. Scholarship in Medicine', which I have founded in Harvard College."	4,647.51
Abel H. Proctor, Estate of:	
His bequest of \$50,000, plus accrued interest, "to be added to the fund given to the said President and Fel- lows of Harvard College by my aunt, Ellen Osborne Proctor . . .", in 1903	50,136.11
James Jackson Putnam Professorship	275.00
William Sturgis Bigelow Miss Edith M. Howes	
Flavius Searle Memorial Fund:	
Miss Mary L. Searle, Estate of:	
On account of her residuary bequest, in memory of her father, Dr. Flavius Searle, "the income of which shall be expended as scholarships to students in the Medical School and the Law- rence Scientific School, so that each of said schools shall receive an equal share . . .":	
Securities valued at	8,779.64
Amount carried forward, . . .	\$1,336,947.98

Amount brought forward, . . . \$1,336,947.98

Medical School (*continued*):

Francis Skinner (Sr.), Estate of:

Additional, on account of his residuary
bequest 110.63

Charles Hamilton Wilder, Estate of:

Additional, on account of his bequest:

Cash	\$607.15	
Securities valued at	2,700.00	3,307.15

"William J. and Georgianna B. Wright Fund":

Georgianna B. Wright (Mrs. William J.
Wright), Estate of:

On account of her bequest to the
President and Fellows of Harvard
College "the income to be used accord-
ing to their discretion for medical re-
search and the advancement of medi-
cal and surgical sciences.":

Cash	\$680.07	
Securities valued at	108,160.13	108,840.20

Collis²P. Huntington Memorial Hospital:

M. Douglas Flattery:

New Endowment 500.00

Semitic Museum:

"Hecht Fund":

Jacob H. Hecht, Estate of:

His bequest, the income to be used for
"the maintenance, support and im-
provement of the Schiff Semitic Mu-
seum, so called. . . ." 5,000.00

University:

Anonymous Fund No. 4:

Additional 50,000.00

Daniel L. F. Chase, Estate of:

His bequest for "permanent improve-
ment . . . and not . . . for current
expenses." 2,000.00

Amount carried forward, \$1,506,705.96

Amount brought forward, . . .		\$1,506,705.96	
University (<i>continued</i>):			
"Fund of the Class of 1856":			
Additional			667.46
Class of 1857 Fund:			
Additional			64.00
"The Class of 1890 Fund":			
Twenty-fifth Anniversary Fund:			
Additional			350.00
Class of 1896 Fund:			
Twenty-fifth Anniversary Fund:			
Additional:			
Cash	\$42,049.50		
Securities valued at	3,400.50		45,450.00
Class of 1899 Fund:			
Twenty-fifth Anniversary Fund:			
Additional			7,000.00
John Cowdin, Estate of:			
Additional:			
Real estate valued at			44,000.00
Charles Church Drew, Estate of:			
Additional, on account of his residuary bequest:			
Cash	\$29,181.76		
Securities valued at	82,486.00		111,667.76
John Davis Williams French, Estate of:			
Additional			500.01
George A. Goddard, Estate of:			
His bequest "To the President and Fellows of Harvard College. . . ."			5,000.00
Harvard Union Funds, from the Trustees of:			
Class of 1878 Fund:			
Cash	\$230.95		
Securities valued at	10,038.04		10,268.99
Amount carried forward, . . .			\$1,731,674.18

Amount brought forward, . . . \$1,731,674.18

University (*continued*):

Harvard Union Funds, from the Trustees of,
(*continued*):

Harvard Union Fund:

Cash	\$1,851.93	
Securities valued at	51,577.91	53,429.84

Simes Fund:

Cash	\$67.81	
Securities valued at	3,512.02	3,579.83

A. Paul Keith, Estate of:

On account of his residuary bequest:
"and I direct . . . that what is re-
ceived by the President and Fellows
of Harvard College shall be devoted
by that corporation to the general
purposes of Harvard University.":

Real estate valued at	112,500.00
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Henry L. Pierce, Estate of:

Additional, on account of his residuary bequest	1,021.62
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Lawrence Eugene Sexton, Estate of:

On account of his bequest "the an- nual net income of which is to be used . . . as the President and Fellows of Harvard College may from time to time determine."	6,931.11
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Archibald L. Smith, Estate of:

His bequest "to Harvard Univer- sity. . . ."	1,000.00
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Michael Ullrich, Estate of:

His bequest of \$6,000, less inheritance taxes, in memory of his son, G. E. Walter Ullrich of the Class of 1888, "without condition. . . ."	5,829.00
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Unrestricted:

Fiske Warren:

Securities valued at	1.00
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Amount carried forward, . . .	\$1,915,966.58
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Amount brought forward, . . .	\$1,915,966.58
Museum of Comparative Zoölogy:	
"Maria Whitney and James Lyman Whitney Fund":	
James Lyman Whitney, Estate of:	
Additional, on account of his residuary bequest	66.44
Harvard Endowment Fund:	
Restricted to:	
Schools of Architecture and Landscape Architecture	500.00
Arnold Arboretum:	
Endowment Fund (<i>see page 15</i>) . . .	(6,322.50)
Stephen M. Weld Memorial Fund . .	25,000.00
Graduate School of Arts and Sciences . .	5.00
Astronomical Observatory	1,000.00
Graduate School of Business Administration	2,522.50
Bussey Institution:	
Library	25.00
Anna C. Ames Memorial Scholarship	625.00
College:	
Atkins Fund for Tropical Research in Economic Botany	10,000.00
Department of Chemistry	2,000.00
Harvard Studies in Comparative Literature	9,500.00
Richard Hodgson Memorial	60.00
Division of Music	500.00
Josiah Royce Memorial	30.00
Salaries	70.00
Scholarship and Beneficiary Money Returned Fund	54.00
Jonathan Trumbull Professorship . .	150.00
Dental School:	
"The Eugene Hanes Smith Scholarship"	2,500.00
Unrestricted	290.00
Divinity School	30.00
Amount carried forward, . . .	\$1,970,894.52

Amount brought forward, . . . \$1,970,894.52

Harvard Endowment Fund (*continued*):

Restricted to (*continued*):

Graduate School of Education:

Charles W. Eliot Fund 1,140.00

Engineering School 583.34

The William Hayes Fogg Art Museum . 1,500.00

Harvard Forest:

Securities valued at 876.60

Law School:

Max Epstein Loan Fund 5,000.00

M. J. and Jennie Mack Loan Fund . 187.50

Scholarships 10.00

Unrestricted:

Cash \$7,896.50

Securities valued at 355.04 8,251.54

Library:

Richard Mather Jopling Memorial . 500.00

Dillwyn Parrish Starr Memorial . 410.00

Unrestricted 60,000.00

Medical School 80.00

Peabody Museum of American Archaeology and Ethnology:

Salaries 1,000.00

Unrestricted 3,500.00

Unrestricted:

Cash \$1,459,836.01

Securities valued at 208,457.86 1,668,293.87

Total, \$3,722,227.37

GIFTS FOR IMMEDIATE USE

For the year ended June 30, 1921

Appleton Chapel:

Choir Expenses:

Edward C. Moore	\$25.00
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Current Expenses:

Thomas Nelson Perkins	10.00
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Schools of Architecture and Landscape Architecture:

Robinson Hall Libraries:

Anonymous	5,000.00
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Arnold Arboretum:

To increase the income:

Thomas Allen	\$100.00
Oliver Ames	100.00
Larz Anderson and Mrs. Anderson .	200.00
Samuel Appleton	100.00
Miss Ellen S. Bacon	100.00
Walter C. Baylies	100.00
E. Pierson Beebe	100.00
Frank B. Bemis	100.00
William Sturgis Bigelow	500.00
George Nixon Black	100.00
Mrs. Francis Blake	100.00
William P. Blake	50.00
Edward D. Brandegee and Mrs.	
Brandegee	200.00
Miss Fannie R. Brewer	100.00
Albert C. Burrage	100.00
Miss Louise W. Case	100.00
Miss Marian R. Case	100.00
Mrs. James M. Codman	100.00
William R. Coe	200.00
Miss Alice S. Coffin	100.00
Charles A. Coffin	100.00
William T. Councilman	25.00
Frederick G. Crane	100.00
Richard T. Crane, Jr.	200.00
Mrs. Zenas Crane	200.00

Amounts carried forward, . . .	\$3,275.00
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\$5,035.00

Amounts brought forward, . . .	\$3,275.00	\$5,035.00
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Arnold Arboretum (*continued*):To increase the income (*continued*):

Z. Marshall Crane	100.00
Mrs. George G. Crocker	100.00
Mrs. Stephen V. R. Crosby	100.00
Mrs. Francis B. Crowninshield	100.00
Mrs. Charles B. Curtis	100.00
Mrs. Arthur E. Davis	100.00
William B. H. Dowse	100.00
George A. Draper	100.00
Henry A. Du Pont	1,000.00
Henry F. Du Pont	1,000.00
Miss Hannah M. Edwards	100.00
Mrs. Thomas J. Emery	500.00
William Endicott	100.00
Mrs. L. Carteret Fenno	100.00
Mrs. W. Scott Fitz	100.00
Desmond FitzGerald	100.00
Childs Frick	500.00
Mrs. Louis A. Frothingham	1,000.00
William A. Gaston	100.00
Augustus Hemenway	100.00
Anton G. Hodenpyl	250.00
Clement S. Houghton	100.00
Henry S. Howe	100.00
Henry S. Hunnewell and Mrs. Hunnewell	500.00
Walter Hunnewell	100.00
Mrs. Oscar Iasigi	100.00
Walter Jennings	250.00
Nathaniel T. Kidder	100.00
David P. Kimball	100.00
The Knapp Fund, Trustees of	500.00
Horatio A. Lamb and Mrs. Lamb	100.00
Mrs. Gardiner M. Lane	100.00
Mrs. Amory A. Lawrence	100.00
Louis K. Liggett	100.00
Mrs. William Caleb Loring	100.00
Arthur Lyman	100.00
Cyrus H. McCormick	200.00
Miss Fanny P. Mason	100.00
Massachusetts Society for Promoting Agriculture	2,000.00
Miss Susan Minns	100.00
Mrs. J. Pierpont Morgan, Jr.	200.00
Mrs. John T. Morse	100.00

Amounts carried forward, . . .	\$14,175.00	\$5,035.00
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Amounts brought forward, . . . \$14,175.00 \$5,035.00

Arnold Arboretum (*continued*):

To increase the income (*continued*):

North Shore Garden Club of Long Island	50.00	
Robert Osgood	100.00	
George A. Peabody	100.00	
John E. Peabody	100.00	
Mrs. John C. Phillips	100.00	
Stephen W. Phillips and Mrs. Phillips	100.00	
Dudley L. Pickman	100.00	
Mrs. Dudley L. Pickman	100.00	
David Pingree	500.00	
Laban Pratt	100.00	
William L. Richardson	100.00	
Mrs. Jacob C. Rogers	100.00	
Mrs. Robert S. Russell	100.00	
Mrs. John L. Saltonstall	300.00	
Richard M. Saltonstall	100.00	
Mrs. Richard M. Saltonstall	100.00	
Charles S. Sargent, Jr.	200.00	
Mrs. Lucius M. Sargent	100.00	
Mrs. J. Montgomery Sears	100.00	
Mrs. Knyvet W. Sears	100.00	
Mrs. Richard D. Sears	100.00	
Mrs. G. Howland Shaw	50.00	
Charles A. Stone and Mrs. Stone . .	200.00	
Galen L. Stone	500.00	
Nathaniel H. Stone	100.00	
Charles E. Stratton	100.00	
John E. Thayer	500.00	
Mrs. John E. Thayer	100.00	
Mrs. Nathaniel Thayer	100.00	
Charles H. Tyler	50.00	
Charles C. Walker	100.00	
Edwin S. Webster and Mrs. Webster	200.00	
Frank G. Webster and Mrs. Webster	200.00	
Laurence J. Webster and Mrs. Webster	200.00	
John W. Weeks	50.00	
Mrs. Charles G. Weld	100.00	
In memory of Stephen M. Weld . .	200.00	
William P. Wharton	100.00	
Mrs. Stephen G. Wheatland	100.00	
George R. White	1,000.00	
William Whitman	100.00	
John D. Williams	100.00	
Robert Winsor	100.00	21,175.00

Amount carried forward, . . .

\$26,210.00

Amount brought forward, . . . \$26,210.00

Graduate School of Arts and Sciences:

Loan Fund:

The Society of Harvard Dames . . . 59.15

Astronomical Observatory:

Draper Memorial:

Mary Anna Palmer Draper (Mrs.
Henry Draper), Estate of . . . 4,000.00

Publications:

The American Association of Variable Star Observers	\$1,000.00	
John J. Crane	25.00	
Mrs. James R. Jewett	1,000.00	2,025.00

Bermuda Biological Station for Research:

General Purposes:

George R. Agassiz	\$200.00	
William Sturgis Bigelow	200.00	
Ernest B. Dane	250.00	
Nathaniel T. Kidder	50.00	
Dudley L. Pickman	25.00	725.00

Blue Hill Meteorological Observatory:

Salaries:

Mrs. Henry Parkman, Jr. 1,500.00

Botanical Museum:

Present Use:

Anonymous	\$2,000.00	
Miss Susan Minns	500.00	
Miss Mary Lee Ware	1,384.16	3,884.16

Graduate School of Business Administration:

Case System of Teaching:

Robert Amory	\$75.00
George F. Baker, Jr.	250.00
James Byrne	1,000.00
Howard Coonley	75.00
Howard Elliott	500.00
Charles S. Fairchild	500.00

Amounts carried forward, . . .	\$2,400.00	\$38,403.31
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Amounts brought forward, . . . \$2,400.00 \$38,403.31

Graduate School of Business Administration (*continued*):

Case System of Teaching (*continued*):

Ernest W. Hulet	150.00	
R. H. Macy and Company	500.00	
J. Pierpont Morgan	2,000.00	
Robert P. Perkins	1,000.00	
John W. Prentiss	500.00	
Thomas W. Slocum	1,000.00	
James J. Storrow	1,000.00	
Harold S. Vanderbilt	500.00	
Thomas H. White	150.00	9,200.00

Guaranteed Deficit Fund:

Arthur Adams	\$1,000.00	
Robert Amory	50.00	
Anonymous	575.00	
Walter C. Baylies	3,000.00	
Morris A. Black	150.00	
Henry Herrick Bond	50.00	
Edward D. Brandegee	100.00	
Howard Coonley	75.00	
William W. Duncan	25.00	
Paul E. Fitzpatrick	75.00	
Edwin Farnham Greene	100.00	
Frederic C. Hood	50.00	
Frank P. Huckins	25.00	
James H. Hustis, Jr.	25.00	
Charles H. Jones	75.00	
Clement R. Lamson	25.00	
John S. Lawrence	575.00	
Herbert W. Mason	200.00	
Winfield L. Shaw	100.00	
Galen L. Stone	3,000.00	
James J. Storrow	2,000.00	
Adin N. Wright	25.00	
Leonard M. Wright	25.00	11,325.00

Library of the Graduate School of Business Administration:

Frederick L. Olmsted	} for books in Accounting .	125.00
John C. Olmsted		

Loan Fund:

Joseph August	\$25.00
Sterling R. Carrington	12.50

Amounts carried forward, . . . \$37.50 \$59,053.31

Amounts brought forward, . . .	\$37.50	\$59,053.31
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Graduate School of Business Administration (*continued*):Loan Fund (*continued*):

George E. Cole	50.00	
Albert P. Everts	25.00	
Whitcomb B. Fairfield	5.00	
Paul E. Fitzpatrick	100.00	
George Gund	100.00	
James Scott Hamilton	25.00	
George N. Janis	5.00	
Thomas R. Jones	10.00	
Henry T. Myers	100.00	
Raymond M. Roberts	25.00	
Frank M. Sawtell	5.00	
John F. Spence	100.00	
Edward G. Stacy	12.50	
Raymond Stout	25.00	
Charles A. Whipple	25.00	650.00

Course in Printing:

United Typothetae of America . .		1,756.77
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Prizes:

George O. May		150.00
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Research:

Alvan T. Simonds:

Securities valued at		4,627.50
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Bussey Institution:

Salaries:

Richard T. Fisher		1,200.00
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College:

Department of Astronomy and Navigation:

Weld Arnold	\$5.00	
William Duane	5.00	
Edwin H. Hall	5.00	
Augustus Hemenway	100.00	
Clarence E. Kelley	5.00	
Theodore Lyman	10.00	
George W. Pierce	10.00	
Harlan T. Stetson	5.00	
George C. Whipple	5.00	
Robert W. Willson	20.00	170.00

Amount carried forward, . . .		\$67,607.58
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Amount brought forward, . . .		\$67,607.58
College (<i>continued</i>):		
Division of Chemistry:		
For the construction and maintenance of a library and reading-room, in memory of Frederic Saltonstall Gould of the Class of 1875:		
Mrs. Frederic Saltonstall Gould . .		10,000.00
"Du Pont Fellowship":		
E. I. du Pont de Nemours and Company		750.00
Department of the Classics:		
Francis R. Appleton	\$50.00	
James Byrne	100.00	150.00
Department of Economics:		
Library:		
Frank W. Taussig		50.00
Publications:		
Anonymous		160.00
Research:		
Philip Cabot		1,500.00
Department of English:		
George C. Beals		50.00
Division of The Fine Arts:		
Prizes:		
Henry S. Bowers		75.00
Division of Geology:		
Department of Geology and Geography:		
"a friend of the Department of Geology and Geography" . . .	\$100.00	
Louis C. Graton	50.00	150.00
Department of Economic Geology:		
John E. Wolff		250.00
Amount carried forward, . . .		\$80,742.58

Amount brought forward, . . . \$80,742.58

College (*continued*):

Division of Geology (*continued*):

Department of Mineralogy and Petrography:

Rodolphe L. Agassiz	\$100.00	
Livingston Davis	25.00	
Guerdon S. Holden	500.00	
Edward Wigglesworth	100.00	725.00

Department of Government:

Municipal Government:

Frank Graham Thomson	5,000.00
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Bureau of Municipal Research:

Robert F. Herrick	\$200.00	
Clarke Thomson	1,250.00	
Frank Graham Thomson	1,250.00	2,700.00

Special Expenses:

William Bennett Munro	27.35
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Department of History:

Fellowships:

Archibald Cary Coolidge	200.00
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Division of Music:

Percy Lee Atherton	\$110.00	
W. Kirkpatrick Brice	200.00	
John W. Frothingham	100.00	
Edward B. Hill	20.00	
Mrs. Edward B. Hill	25.00	
Otto H. Kahn	50.00	
Horatio A. Lamb	100.00	
Dave H. Morris	50.00	
Philip L. Spalding	75.00	
Walter R. Spalding	50.00	
Paul M. Warburg	50.00	830.00

Division of Philosophy:

Library of the Division of Philosophy:

Reginald C. Robbins	200.00
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Amount carried forward, . . .	\$90,424.93
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Amount brought forward, . . . \$90,424.93

College (*continued*):

Division of Philosophy (*continued*):

Publications:

G. Howland Shaw 1,000.00

Division of Physics:

To be added to the income of the Ernest
B. Dane Fund:

Anonymous	\$2,500.00	
Edward Kunhardt Warren	50.00	2,550.00

To be added to the income of the En-
dowment Fund of the Jefferson Physical
Laboratory:

Anonymous	\$7,500.00	
Henry Lyman	1,500.00	9,000.00

Services and Wages:

Anonymous:

Cash	\$100.00	
Securities valued at	3,650.00	3,750.00

To meet the cost of a storage battery for
the Jefferson Physical Laboratory:

Robert Amory	\$250.00	
George T. Cruft	250.00	
Malcolm Donald	250.00	
George O. Muhlfeld	250.00	
Elihu Thomson	250.00	
Eliot Wadsworth	250.00	1,500.00

Department of Social Ethics:

Services and Wages:

Mrs. Richard C. Cabot 500.00

Beneficiary Funds:

The Dr. Andrew P. Peabody Memorial
Fund:

Charles F. Dole 100.00

Amount carried forward, . . . \$108,824.93

Amount brought forward, . . . \$108,824.93

College (*continued*):

Fellowships:

Roosevelt Research:

Roosevelt Memorial Association,
Incorporated 425.00

Spanish-American:

George L. Lincoln 500.00

Loan Funds:

William Elwood Byerly Loan Fund:

Anonymous 50.00

Dean's Loan Fund:

Frank W. Taussig 200.00

Prizes:

Jeremy Belknap:

Philippe B. Marcou 50.00

Harvard Club of North China 100.00

"The Oliver Morosco Dramatic Prize":

Oliver Morosco 500.00

"The Richard Sears Prize":

Richard Sears 100.00

Salaries:

Anonymous	\$325.00	
S. Marcus Fechheimer	100.00	
Friendship Fund, Incorporated	5,000.00	
Mrs. Joseph M. Herman	50.00	
Godfrey M. Hyams	500.00	
James R. Jewett	900.00	
Louis E. Kirstein	150.00	
Abraham Koshland	50.00	
Thomas W. Lamont	300.00	
Irving Lehman	1,100.00	
T. Lawrason Riggs	200.00	
James N. Rosenberg	100.00	
Al. A. Rosenbush	50.00	
Mortimer L. Schiff	250.00	
Louis Ziegel	50.00	9,125.00

Amount carried forward, . . . \$119,874.93

Amount brought forward, . . . \$119,874.93

College (*continued*):

Scholarships:

Wolcott Gibbs:

E. Kirby Newburger 250.00

Julian Henry Reinherz:

Mrs. Etta Barite Reinherz 250.00

Ricardo Prize Scholarship:

Anonymous 350.00

Charles Sumner:

Charles Sumner Bird 200.00

Harvard Clubs Scholarships:

Associated	2,100.00
Boston	898.12
Buffalo	375.00
Chicago	1,000.00
Cincinnati	300.00
Cleveland	800.00
Connecticut	200.00
Connecticut Valley	200.00
Fitchburg	200.00
Kansas City, Mo.	200.00
Long Island	250.00
Lowell	600.00
Maryland	250.00
Michigan	250.00
Milton	500.00
Nebraska	100.00
New England Federation	200.00
New Jersey	250.00
Western Pennsylvania	350.00
Rhode Island	50.00
Rochester, N. Y.	240.00
St. Louis	300.00
San Francisco	350.00
Santa Barbara	400.00
Seattle	300.00
Somerville	100.00
Washington, D. C.	600.00
Worcester	200.00

Amount carried forward, . . . \$132,488.05

Amount brought forward, . . .	\$132,488.05
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College (*continued*):Scholarships (*continued*):

Young Men's Christian Associations of Delaware, Maryland, West Virginia and the District of Columbia . . .	50.00
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Young Men's Christian Associations of New Jersey	150.00
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To be added to the income of the Teachers'
Endowment Fund:

Edwin H. Abbot	200.00
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Dental School:

Current Expenses:

Frank Perrin	10.00
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Fund for Visiting Committees:

Charles H. Abbot	\$25.00
Fred W. Allen	25.00
Lawrence W. Baker	50.00
Charles A. Brackett	10.00
Walter H. Chambers	12.50
Charles E. B. Chase	50.00
John W. Cooke	25.00
William P. Cooke	50.00
Ralph C. Curtis	25.00
Frank H. Cushman	25.00
Harold J. Cutler	25.00
Martin B. Dill	50.00
F. Chester Durant	50.00
Forrest G. Eddy	50.00
Charles W. Goetz	10.00
Ralph E. Gove	50.00
Amos I. Hadley	50.00
Julius F. Hovestad	50.00
Horace L. Howe	25.00
Allan M. Johnson	12.50
Paul B. LeBaron	25.00
Chauncey N. Lewis	25.00
Arthur A. Libby	50.00
Sterling N. Loveland	25.00
Frank R. McCullagh	25.00
George H. Monks	50.00
Leonard D. Nathan	50.00

Amounts carried forward, . . .	\$920.00	\$132,898.05
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Amounts brought forward, . . .	\$920.00	\$132,898.05
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Dental School (*continued*):Fund for Visiting Committees (*continued*):

Norman B. Nesbett	50.00	
Joseph W. Nevins	12.50	
Arthur J. Oldham	25.00	
Harold L. Peacock	25.00	
Maurice E. Peters	50.00	
Charles G. Pike	25.00	
Arthur V. Rogers	25.00	
Reinhold Ruelberg	25.00	
Harmon Shohet	25.00	
Judson C. Slack	50.00	
Eugene H. Smith	50.00	
J. Mark Smith	25.00	
Homer C. Sowles	25.00	
David F. Spinney	25.00	
Kurt H. Thoma	25.00	
John T. Timlin	25.00	
Benjamin Tishler	25.00	
Clarence B. Vaughan	25.00	
Charles T. Warner	25.00	
George H. Wright	25.00	
Eugene B. Wyman	25.00	
		1,532.50

Divinity School:

Library of the Divinity School:

Society for Promoting Theological Education.	1,500.00
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Graduate School of Education:

To be added to the income of the Charles W.
Eliot Fund:

Anonymous	\$15.00	
Committee of the Permanent Charity Fund Incorporated	500.00	515.00

Psycho-Educational Clinic:

Current Expenses:

Mrs. Edward H. Harriman	3,000.00
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Salaries:

Joseph Lee	3,500.00
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Amount carried forward, . . .	\$142,945.55
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Amount brought forward, . . . \$142,945.55

Engineering School:

Research in Cryogenic Engineering:

Research Corporation 3,800.00

The William Hayes Fogg Art Museum:

Excavations in Greek Lands:

Anonymous 10,000.00

For the purchase of "The Dwarf", by Goya:

Mrs. Henry H. Sherman 6,000.00

For the purchase of Mr. Lochoff's copy of a fresco, by Benozzo Gozzli:

Anonymous	\$500.00	
Anonymous	500.00	
Bernhard Berenson	500.00	
Mrs. Waldo E. Forbes	500.00	
Carl W. Hamilton	200.00	
A. Kingsley Porter	500.00	2,700.00

"The Society of Friends of the Fogg Art Museum"

4,665.00

Mrs. Copley Amory	Joseph C. Hoppin
William Sumner Appleton	Alfred Johnson
Mrs. Harrison O. Apthorp	Thomas W. Lamont
Mrs. John W. Bartol	Arthur Lehman
Gordon Knox Bell	Herbert H. Lehman
Bernhard Berenson	Philip Lehman
George Blumenthal	Robert Lehman
Henry S. Bowers	Charles J. Liebmann
Mrs. Henry R. Bowser	Philip M. Lydig
Miss Ellen T. Bullard	Edwin V. Morgan
Heman Merrick Burr	J. Pierpont Morgan
Mrs. Heman Merrick Burr	John Lord O'Brian
Arthur Astor Carey	Bradley W. Palmer
Charles T. Carruth	Potter Palmer
Waddill Catchings	John C. Phillips
Percy H. Clark	A. Kingsley Porter
Harold J. Coolidge	Joseph M. Proskauer
J. Randolph Coolidge, Jr.	Eben Richards
Miss Hester Cunningham	Mrs. John Wallace Riddle
Harold W. Dana	Julius Rosenwald
Edwin S. Dodge	Arthur Sachs

Amount carried forward, . . .

\$170,110.55

Amount brought forward, . . .

\$170,110.55

The William Hayes Fogg Art Museum (*continued*):"The Society of Friends of the Fogg Art Museum (*continued*):

Mrs. Ludwig Dreyfuss	Barney Sachs
Charles B. Eddy	Harry Sachs
Richard Ederheimer	Paul J. Sachs
Corbin Edgell	Mrs. Samuel Sachs
Harold L. Ehrich	Walter E. Sachs
Walter L. Ehrich	George Sarton
William Emerson and Mrs. Emerson	Mortimer L. Schiff
	Donald Scott
Martin Erdmann	Frederick Cheever Shattuck
Albert R. Erskine	Thomas W. Slocum
Edward W. Forbes	Eliot Spalding
F. Murray Forbes	James A. Stillman
Mrs. Waldo E. Forbes	Herbert N. Straus
Miss Louise Fitz	John H. Sturgis
Miss Helen Clay Frick	Horace M. Swope
Lee M. Friedman	Fritz B. Talbot
B. Aphorpe Gould Fuller	J. Collins Warren
G. Peabody Gardner, Jr.	Frederic C. Weld
Henry Goldman	Richard Wheatland
Julius Goldman	Alexander M. White
Charles C. Goodrich	James Platt White
Arthur F. Gotthold	Grenville L. Winthrop
Morris Gray, Jr.	Clement B. Wood
Thomas S. Hathaway	

"Museum Equipment and Emergency Fund":

Anonymous	\$50.00	
Henry S. Bowers	1,000.00	
Waddill Catchings	250.00	
William C. Endicott and Mrs. Endicott	50.00	
Mrs. Ralph Emerson Forbes	200.00	
W. Cameron Forbes	300.00	
Arthur Lehman	100.00	
Robert Lehman	400.00	
Guy Murchie	25.00	
Arthur Sachs	500.00	
Harry Sachs	1,000.00	
Howard J. Sachs	250.00	
Samuel Sachs	500.00	
Walter E. Sachs	250.00	
Mrs. William Austin Wadsworth	50.00	
Roger S. Warner	100.00	
		5,025.00

Amount carried forward, . . .

\$175,135.55

Amount brought forward, . . . \$175,135.55

The William Hayes Fogg Art Museum (*continued*):

“Teaching Equipment Fund”:

Mrs. Ludwig Dreyfuss	\$100.00	
Edward W. Forbes	475.00	
Mrs. Courtland Hoppin	100.00	
Joseph C. Hoppin	100.00	
Alfred Johnson	25.00	
Percival Hall Lombard	25.00	
Paul J. Sachs	75.00	900.00

Wolcott Gibbs Memorial Laboratory:

Research:

Anonymous	5,000.00
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Gray Herbarium:

Present Use:

Rodolphe L. Agassiz	\$10.00
Mrs. James Barr Ames	10.00
Anonymous	25.00
Anonymous	25.00
Walter C. Baylies	10.00
Thomas P. Beal	10.00
William Sturgis Bigelow	40.00
Mrs. Francis Blake	5.00
Miss Sarah F. Bremer	10.00
Edward M. Brewer	10.00
Allston Burr and Mrs. Burr	10.00
Miss Marian R. Case	25.00
Miss Louise H. Coburn	10.00
Mrs. James M. Codman	10.00
In memory of Francis H. Cummings	10.00
Mrs. Frank A. Day	10.00
Walter Deane	10.00
Henry F. Du Pont	25.00
Mrs. John W. Elliot	5.00
William Endicott	10.00
Alexander Forbes	20.00
Mrs. William H. Forbes	5.00
Mrs. Louis A. Frothingham	50.00
Miss Emily Gray	10.00
Miss Harriet Gray	10.00
Mrs. Augustus Hemenway	10.00
Joseph P. B. Henshaw	10.00
Miss Katharine Horsford	5.00

Amounts carried forward, . . . \$400.00 \$181,035.55

Amounts brought forward, . . . \$400.00 \$181,035.55

Gray Herbarium (*continued*):

Present Use (*continued*):

Clement S. Houghton	20.00
Miss Elizabeth G. Houghton	10.00
Henry S. Howe	10.00
Mrs. Arthur Hunnewell	100.00
Francis W. Hunnewell	25.00
Walter Hunnewell	10.00
Miss Anna P. Jackson	10.00
Edward C. Johnson	10.00
Charles A. Kidder	10.00
Nathaniel T. Kidder	25.00
David P. Kimball	25.00
Miss Lulu S. Kimball	10.00
Mrs. Gardiner M. Lane	50.00
Joseph Lee	25.00
Joseph R. Leeson	100.00
Mrs. George F. Linder	25.00
Augustus P. Loring	25.00
Miss Katharine P. Loring	10.00
Miss Louisa P. Loring	10.00
William Caleb Loring	10.00
Mrs. Thornton K. Lothrop	10.00
Miss Ellen F. Mason	10.00
Miss Fanny P. Mason	10.00
Miss Susan Minns	25.00
Grenville H. Norcross	10.00
Mrs. Otis Norcross	10.00
James L. Paine	10.00
Mrs. John C. Phillips	10.00
Mrs. Dudley L. Pickman	20.00
David Pingree	25.00
Miss Elizabeth C. Putnam	5.00
William L. Richardson	25.00
Denman W. Ross	10.00
Mrs. M. Denman Ross	15.00
Mrs. Waldo O. Ross	10.00
Mrs. Robert S. Russell	50.00
Mrs. J. Montgomery Sears	10.00
Mrs. Knyvet W. Sears	30.00
Francis P. Sprague	15.00
Nathaniel H. Stone	10.00
John E. Thayer	100.00
Charles C. Walker	10.00
Miss Caroline E. Ward	10.00
Frank G. Webster and Mrs. Webster	50.00

Amounts carried forward, . . . \$1,410.00 \$181,035.55

GIFTS FOR IMMEDIATE USE

45

Amounts brought forward, . . . \$1,410.00 \$181,035.55

Gray Herbarium (*continued*):Present Use (*continued*):

Miss Adelia C. Williams	100.00	
John D. Williams	25.00	1,535.00
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Law School:

Library of the Law School:

Jesse H. Metcalf	50.00
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Salaries:

Jonathan B. Hayward:

Securities valued at	12,636.00
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Scholarships:

Edgar Joseph Meyer Research Scholarship:

Walter E. Meyer	350.00
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Chester D. Pugsley Post-Graduate:

Chester D. Pugsley	200.00
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Young Men's Christian Association of
Oregon and Idaho

50.00

Unrestricted:

Charles S. Bowen, Estate of	\$1,000.00	
John G. Buchanan	60.00	1,060.00
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Library:

Publications:

Francis R. Appleton	\$100.00	
Thomas Barbour	100.00	
Frank B. Bemis	100.00	
James Byrne	100.00	
Allen Curtis	100.00	
Henry S. Howe	100.00	
William S. Patten	100.00	
Henry S. Van Duzer	100.00	
William A. White	100.00	900.00
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Amount carried forward, . . .	\$197,816.55
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Amount brought forward, . . . \$197,816.55

Library (*continued*):

Purchase of Books for the College Library:

Anonymous	} for early	\$50.00	
George Lyman Kittredge	} Florentine	50.00	
John L. Lowes	} books .	50.00	
George C. Beals, for duplicate books for English 33		50.00	
George C. Beals, for the purchase of library material for English 33		25.00	
William Sturgis Bigelow, for books on Tibet		500.00	
Charles S. Bowen, Estate of, "for the purchase of books in the College Library"		1,000.00	
James Dean, for the purchase of <i>The Chronicles of America and How America Went to War</i>		309.00	
Mrs. Luther S. Livingston		12.90	
James Loeb, for Labor periodicals		100.00	
Walter W. Naumburg, for books on Shakespeare		100.00	
Edgar H. Wells, for the purchase of Lady Glenconner's life of her son		4.15	
Charles E. Whitmore		10.00	2,261.05

Special Expenses:

Francis R. Appleton	\$97.00	
Fred W. Atkinson	95.00	
Joseph H. Clark	36.00	
Henry G. Leach	395.00	
J. Pierpont Morgan	2,500.00	
Mrs. Murray Anthony Potter	50.00	3,173.00

Medical School:

Department of Anatomy:

Salaries:

John L. Bremer 2,306.13

Department of Neuropathology:

Research:

William N. Bullard 1,000.00

Amount carried forward, . . . \$206,556.73

Amount brought forward, . . . \$206,556.73

Medical School (*continued*):

Department of Physiology:

Services and Wages:

Alexander Forbes 2,935.00

Department of Preventive Medicine and Hygiene:

Division of Industrial Hygiene:

American Optical Company	\$250.00	
American Telephone and Telegraph Company	1,000.00	
American Woolen Company	1,000.00	
Walter Baker and Company, Limited	200.00	
Brown and Sharpe Manufacturing Company	500.00	
Calumet and Hecla Mining Company	1,000.00	
Richard T. Crane, Jr.	1,000.00	
The Edison Electric Illuminating Company of Boston	200.00	
John W. Elliot	100.00	
Wendell Endicott	100.00	
General Electric Company	1,000.00	
Great Falls Manufacturing Company	250.00	
Harmony Mills	500.00	
Ipswich Mills	500.00	
Charles C. Jackson	100.00	
Lancaster Mills	500.00	
Lawrence Manufacturing Company	500.00	
Lockwood, Greene and Company	500.00	
Ludlow Manufacturing Associates	250.00	
J. Franklin McElwain	100.00	
Edward Mallinckrodt, Jr.	250.00	
Massachusetts Gas Companies	200.00	
J. Pierpont Morgan	500.00	
Nashua Manufacturing Company	500.00	
The New Jersey Zinc Company	5,000.00	
O'Bannon Corporation	250.00	
Pacific Mills	1,000.00	
St. Joseph Lead Company	1,000.00	
Galen L. Stone	1,000.00	
Walworth Manufacturing Company	500.00	
George R. White	1,000.00	20,750.00

Amount carried forward, . . . \$230,241.73

Amount brought forward, . . . \$230,241.73

Medical School (*continued*):

Department of Preventive Medicine and
Hygiene (*continued*):

Fund for the study of health conditions
in Department Stores:

Chandler and Company, Incorporated	\$250.00	
Gilchrist Company	500.00	
The Halle Brothers Company . . .	350.00	
L. P. Hollander Company	250.00	
Joseph Horne Company	350.00	
Jordan Marsh Company	750.00	
Lord and Taylor	500.00	
L. S. Plaut and Company	250.00	
Shepard Norwell Company	250.00	
E. T. Slattery Company	250.00	
R. H. Stearns Company	150.00	
R. H. White Company	500.00	
Woodward and Lothrop, Incorporated	350.00	4,700.00

Publications:

William Sturgis Bigelow	\$1,000.00	
Mrs. James C. Melvin	1,000.00	
Frederick Cheever Shattuck . . .	1,000.00	
Mrs. Frederick Cheever Shattuck .	1,000.00	4,000.00

Department of Surgery:

Surgical Laboratory:

Anonymous	\$1,000.00	
William Sturgis Bigelow	1,000.00	2,000.00

Department of Tropical Medicine:

Anonymous	\$2,500.00	
William Sturgis Bigelow	1,000.00	
Allen Curtis	100.00	
Galen L. Stone	400.00	4,000.00

Library of the Medical School:

First-year class in the Medical School	\$25.00	
Elliott P. Joslin	25.00	50.00

Loan Fund:

Harriet P. Keith:

Harriet P. Keith (Mrs. Herbert J. Keith), Estate of	500.00
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Amount carried forward, . . . \$245,491.73

Amount brought forward, . . . \$245,491.73

Medical School (*continued*):

Research:

William N. Bullard 1,000.00

Salaries:

Anonymous	\$1,000.00	
Mrs. Charles Sumner Bird	100.00	
Miss Sarah F. Bremer	250.00	
Mrs. Shepherd Brooks	250.00	
Mrs. W. Scott Fitz	250.00	
A Friend	1,500.00	
Harvard Medical Alumni Association	2,425.00	
Mrs. Francis L. Higginson	100.00	
Miss Louisa P. Loring	10.00	
Mrs. Charles E. Mason	250.00	
Helen Rotch (Mrs. Thomas Morgan Rotch), Estate of	272.12	
Mrs. Robert S. Russell	100.00	6,507.12

Unrestricted:

Ernest M. Daland	\$11.36	
Hubert M. English	225.00	236.36

The Cancer Commission of Harvard University:

New Laboratory Fund:

Anonymous	\$750.00
Anonymous	1,000.00
Anonymous	500.00
Anonymous	2,000.00
Anonymous	100.00
Charles F. Ayer	50.00
Mrs. Walter C. Baylies	500.00
Frank B. Bemis	250.00
Mellen Bray Estate, Trustees of	5,000.00
Mrs. J. Nicholas Brown	500.00
Miss Katherine E. Bullard	300.00
Miss Amy W. Cabot	100.00
Mrs. Arthur Tracy Cabot	1,000.00
Frederick P. Cabot	5,000.00
Godfrey L. Cabot	1,000.00
Samuel Cabot	200.00
Mrs. Humphrey Chadbourne	250.00
Costello C. Converse	2,500.00
Mrs. Costello C. Converse	2,500.00

Amounts carried forward, . . . \$23,500.00 \$253,235.21

Amounts brought forward, . . . \$23,500.00 \$253,235.21

Medical School (*continued*):

The Cancer Commission of Harvard University
(*continued*):

New Laboratory Fund (*continued*):

Mrs. T. Jefferson Coolidge	1,000.00
Mrs. George G. Crocker	250.00
H. Nelson Emmons	25.00
"In memory of C. S. F."	1,000.00
Mrs. W. Scott Fitz	1,000.00
Mrs. Ralph Emerson Forbes	200.00
Mrs. Louis A. Frothingham	1,000.00
Miss Harriet Gray	100.00
Randolph C. Grew	1,000.00
N. Penrose Hallowell	250.00
John Hancock Mutual Life Insurance Company	30,000.00
Charles L. Harding	500.00
Miss Ellen R. Hathaway	50.00
Francis L. Higginson	5,000.00
Miss Fredrika G. Holden	5,000.00
Mrs. Amos L. Hopkins	1,000.00
Henry S. Hunnewell	250.00
Charles C. Jackson and Mrs. Jackson	5,000.00
Mrs. Henry P. King	200.00
Mrs. Horatio A. Lamb	200.00
Mrs. Lester Leland	1,000.00
A. Lawrence Lowell and Mrs. Lowell	500.00
Daniel A. Lucey	100.00
Miss Julia Lyman	2,000.00
Miss Mabel Lyman	2,000.00
Everett Morss	500.00
Mrs. E. Preble Motley	100.00
Frank C. Paine	100.00
Robert Treat Paine, 2d	1,000.00
William A. Paine	500.00
Miss Eleanor S. Parker	100.00
George A. Peabody	5,000.00
James J. Phelan	100.00
Mrs. Dudley L. Pickman	1,000.00
David Pingree	1,000.00
Miss Mary Pratt	200.00
William L. Putnam and Mrs. Putnam	500.00
Mrs. Nehemiah W. Rice	5,000.00
Mrs. John Richardson	100.00
Richard M. Saltonstall and Mrs. Saltonstall	1,000.00

Amounts carried forward, . . . \$98,325.00 \$253,235.21

Amounts brought forward, . . . \$98,325.00 \$253,235.21

Medical School (*continued*):

The Cancer Commission of Harvard University
(*continued*):

New Laboratory Fund (*continued*):

Mrs. Francis W. Sargent	100.00	
Mrs. George S. Silsbee	50.00	
Francis P. Sprague	50.00	
James J. Storrow	250.00	
Miss Alice P. Tapley	100.00	
Eliot Wadsworth	2,000.00	
Miss Mary Weld	4,000.00	
George R. White	5,000.00	
William Whitman	5,000.00	
Edward F. Whitney	100.00	
Mrs. Edward Wigglesworth	50.00	115,025.00

Present Use:

"A Friend" 1,980.00

Salaries:

Anonymous	\$500.00	
Anonymous	500.00	
Anonymous	1,000.00	2,000.00

To be expended under the direction of the
social service worker:

Franklin W. Moulton 50.00

Collis P. Huntington Memorial Hospital:

Current Expenses:

George R. Agassiz	\$250.00
Rodolphe L. Agassiz	25.00
Mrs. Leonard D. Ahl	50.00
Miss Martha A. Alford	100.00
Robert Amory	20.00
Anonymous	5.00
Anonymous	250.00
Anonymous	25.00
Charles F. Ayer	50.00
Miss Ellen S. Bacon	50.00
Hugh Bancroft	25.00
Nelson S. Bartlett	25.00
Mrs. Junius Beebe	25.00

Amounts carried forward, . . . \$900.00 \$372,290.21

Amounts brought forward, . . . \$900.00 \$372,290.21

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current Expenses (*continued*):

William Sturgis Bigelow	500.00
Charles S. Bird	25.00
George Nixon Black	100.00
Mrs. Arthur W. Blake	20.00
Mrs. Francis Blake	50.00
Mrs. Edward D. Brandegee	200.00
Miss Sarah F. Bremer	50.00
Mrs. Shepherd Brooks	50.00
Mrs. John A. Burnham	10.00
I. Tucker Burr	25.00
Mrs. Arthur Tracy Cabot	100.00
James Richard Carter	25.00
Miss Nellie P. Carter	200.00
Miss Georgina S. Cary	25.00
Miss Louise W. Case	25.00
Miss Marian R. Case	50.00
Mrs. Theodore Chase	25.00
Committee of the Permanent Charity Fund Incorporated	500.00
Mrs. Charles E. Cotting	50.00
Miss Elizabeth A. Cotton	150.00
Mrs. David R. Craig	100.00
Mrs. Francis B. Crowninshield	10.00
John S. Curtis	50.00
Philip Y. De Normandie	25.00
Franklin Dexter	100.00
Gordon Dexter	100.00
John R. Dexter	5.00
Miss Hannah M. Edwards	50.00
Nathaniel H. Emmons	100.00
William Endicott	100.00
John W. Farlow	25.00
Miss Fannie M. Faulkner	25.00
Frederick P. Fish	25.00
Mrs. W. Scott Fitz	50.00
Thomas A. Forsyth	25.00
Miss Helen Clay Frick	250.00
Homer Gage	50.00
Miss Harriet Gray	50.00
Mrs. Reginald Gray	25.00
Robert B. Greenough	40.00

Amounts carried forward, . . . \$4,285.00 \$372,290.21

Amounts brought forward, . . . \$4,285.00 \$372,290.21

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current Expenses (*continued*):

Daniel Harrington	5.00
Miss Ellen R. Hathaway	100.00
Horatio Hathaway, Jr.	25.00
Augustus Hemenway	50.00
Robert F. Herrick	100.00
Franklin W. Hobbs	25.00
Miss Julia W. Holt	50.00
William Hooper	50.00
Henry Hornblower	100.00
Clement S. Houghton	50.00
Miss Elizabeth G. Houghton	25.00
Henry S. Howe	100.00
Mrs. Charles W. Hubbard	60.00
The Humane Society of the Commonwealth of Massachusetts	500.00
Henry S. Hunnewell	100.00
Walter Hunnewell	100.00
Mrs. Oscar Iasigi	50.00
Charles C. Jackson	100.00
Henry Jackson	20.00
James Jackson	100.00
Ellerton James	20.00
Edward C. Johnson	20.00
Mrs. Benjamin M. Jones	30.00
Nathaniel T. Kidder	100.00
David P. Kimball	50.00
The Misses Kimball	25.00
Mrs. Henry P. King	200.00
Horatio A. Lamb	25.00
Thomas W. Lamont	250.00
Mrs. Gardiner M. Lane	50.00
Mrs. Amory A. Lawrence	500.00
Lawrence Model Lodging Houses	500.00
George C. Lee and family, in memory of Elizabeth Winsor	100.00
Mrs. Augustus P. Loring	50.00
Mrs. William Caleb Loring	10.00
Mrs. Thornton K. Lothrop	25.00
James W. Maguire	25.00
Edward Mallinckrodt, Jr.	300.00
Mrs. Charles E. Mason	100.00

Amounts carried forward, . . . \$8,375.00 \$372,290.21

Amounts brought forward, . . . \$8,375.00 \$372,290.21

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current Expenses (*continued*):

Miss Fanny P. Mason	200.00
Miss Ida M. Mason	50.00
Mrs. Daniel Merriman	25.00
J. Pierpont Morgan	100.00
Mrs. Frank Morison	30.00
Miss Frances R. Morse	25.00
Henry Lee Morse	15.00
John H. Murphy	5.00
Mrs. Otis Norcross	50.00
William H. O'Connell	20.00
Mrs. Robert Treat Paine, 2d	25.00
William A. Paine	200.00
Miss Eleanor S. Parker	25.00
George A. Peabody	500.00
James J. Phelan	50.00
David Pingree	200.00
Alexander S. Porter, Jr.	15.00
Miss Julia C. Prendergast	200.00
William L. Richardson	100.00
Miss Emma Rodman	25.00
Mrs. Jacob C. Rogers	150.00
Mrs. Robert S. Russell	50.00
John L. Saltonstall	100.00
Robert Saltonstall	100.00
Mrs. Francis W. Sargent	25.00
Herbert M. Sears	100.00
Mrs. J. Montgomery Sears	100.00
Mrs. Knyvet W. Sears	200.00
Richard D. Sears	100.00
Henry S. Shaw	100.00
Mrs. Quincy A. Shaw	100.00
Mrs. George S. Silsbee	50.00
Miss Laura Slocum	10.00
John T. Spaulding	50.00
William S. Spaulding	50.00
Francis P. Sprague	100.00
Robert H. Stevenson	50.00
James A. Stillman	100.00
Galen L. Stone	250.00
Nathaniel H. Stone	100.00
Miss Abby M. Storer	25.00

Amounts carried forward, . . . \$12,145.00 \$372,290.21

Amounts brought forward, . . . \$12,145.00 \$372,290.21

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current Expenses (*continued*):

Miss Mary G. Storer	25.00	
Robert W. Storer	25.00	
James J. Storrow	100.00	
Edward Clark Streeter	50.00	
Miss Alice P. Tapley	200.00	
Mrs. Ezra R. Thayer	15.00	
John E. Thayer	200.00	
Mrs. Nathaniel Thayer	100.00	
Mrs. Washington B. Thomas	25.00	
"The Eugene Tompkins Memorial" .	1,000.00	
Charles H. Traiser	25.00	
Henry O. Underwood	100.00	
Mrs. Alexander F. Wadsworth . . .	15.00	
Eliot Wadsworth	100.00	
Mrs. William B. Walker	50.00	
Mrs. Bayard Warren	100.00	
J. Collins Warren	100.00	
Lucius H. Warren	50.00	
Frank G. Webster	150.00	
Mrs. Frank G. Webster	50.00	
Miss Mary Weld	1,000.00	
William P. Wharton	100.00	
George R. White	500.00	
William Whitman	100.00	
Edward F. Whitney	100.00	
Frank Whitney	25.00	
George Wigglesworth	100.00	
Hugh Williams	50.00	
Mrs. Jeremiah Williams	100.00	
Mrs. Roger Wolcott	25.00	16,725.00

Toward the construction of the new Lying-in Hospital:

General Education Board 300,000.00

Peabody Museum of American Archaeology and Ethnology:

Explorations:

William H. Claffin, Jr.	\$100.00
Bronson M. Cutting	25.00

Amounts carried forward, . . . \$125.00 \$689,015.21

Amounts brought forward, . . .	\$125.00	\$689,015.21
Peabody Museum of American Archaeology and Ethnology (<i>continued</i>):		
Explorations (<i>continued</i>):		
Lawrence Grinnell	50.00	
Frank E. Guernsey	25.00	
Clarence L. Hay	500.00	
Augustus Hemenway	100.00	
Henry Hornblower	100.00	
John M. Longyear	100.00	
Mrs. Thornton K. Lothrop	300.00	
Dudley L. Pickman	25.00	
T. Mitchell Prudden	100.00	
Samuel C. Stevens	50.00	
John E. Thayer	50.00	
Mrs. Thomas E. Whiting	100.00	1,625.00
Library of the Peabody Museum of American Archaeology and Ethnology:		
John B. Stetson, Jr.		100.00
Present Use:		
Augustus Hemenway	\$97.00	
Charles Peabody	100.00	197.00
Toward meeting the cost of opening the Museum on Sunday afternoons:		
Augustus Hemenway	\$50.00	
Carl T. Keller	10.00	
John C. Phillips	25.00	
Henry N. Sweet	25.00	
Edward Wigglesworth	25.00	135.00
University:		
Directory Office Expenses:		
Anonymous		500.00
For the purchase of the painting, "Three Harvard Philosophers":		
Anonymous	\$200.00	
F. Douglas Cochrane	25.00	
Alexis I. Du Pont	250.00	
Percy S. Grant	500.00	
Joseph Lee	100.00	
Amounts carried forward, . . .	\$1,075.00	\$691,572.21

Amounts brought forward, . . . \$1,075.00 \$691,572.21

University (*continued*):

For the purchase of the painting, "Three
Harvard Philosophers" (*continued*):

Arthur H. Lockett	25.00	
Francis J. Oakes, Jr.	100.00	
James J. Storrow	250.00	1,450.00
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Retiring Allowances:

The Carnegie Foundation for the Advancement of Teaching . .		80,040.36
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Unrestricted:

Harvard Mutual Foundation . . .	\$624.61	
Evan Randolph	100.00	724.61
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University Museum:

"For the purchase of two collections as a gift
to the Cryptogamic Herbarium":

Mrs. William G. Farlow		2,000.00
		<hr/>
Total,		\$775,787.18

SCHEDULE 1

SPECIAL INVESTMENTS

June 30, 1921

UNIVERSITY		Principal.	Net Income.
Caroline M. Barnard Bequest (part),			
\$1,000 City Real Estate Trustees,	\$800.00	\$50.00	
7 shares United Zinc Co., preferred,	Sold during yr.		
J. Arthur Beebe,			
Real Estate, Falmouth,	29,625.00	.....
Charlotte F. Blanchard,			
University Houses and Lands,	4,771.33	1.56	
Martin Brimmer,			
Real Estate, Cambridge,	50,000.00	.....
James C. Carter,			
Claverly Trust,	100,000.00	.....
John W. Carter,			
University Houses and Lands,	12,500.00	24.95	
John Cowdin (part),			
University Houses and Lands,	32,607.04	63.95	
George B. Dorr,			
University Houses and Lands,	115,966.56	233.95	
George Draper,			
University Houses and Lands,	48,458.50	96.70	
Charles Church Drew Bequest,			
16 shares American Tel. & Tel. Co.,	Sold during yr.		96.00
168 " Atchison, Topeka & Santa Fe R. R., preferred,	13,432.00	420.00	
304 " Atchison, Topeka & Santa Fe R. R., common,	24,928.00	1,368.00	
16 " Buffalo, Rochester & Pittsburgh R. R., common,	928.00	48.00	
16 " Chicago, Rock Island & Pacific R. R., preferred,	1,200.00	112.00	
16 " Delaware & Hudson R. R.,	1,552.00	144.00	
24 " Lehigh Valley R. R.,	1,080.00	63.00	
88 " Minneapolis, St. Paul & Saulte Ste Marie R. R.,	4,400.00	352.00	
224 " National Railway of Mexico, 2d pfd.,	1,008.00	.....
72 " Pere Marquette R. R., preferred,	2,880.00	270.00	
40 " Union Pacific R. R.,	4,830.00	300.00	
112 " Wisconsin Central R. R., common,	3,136.00	.....
\$8,000 St. Louis & San Francisco R. R. 4's of 1950,	4,640.00	160.00	
Amounts carried forward,		\$458,742.43	\$3,804.11

	Principal.	Net Income.
Amounts brought forward,	\$458,742.43	\$3,804.11
Charles Church Drew Bequest (<i>continued</i>).		
\$8,000 St. Louis & San Francisco R. R. Adj. Mtg. 6's of 1955,	5,160.00	240.00
16,000 St. Louis & San Francisco R. R. P. L. 5's of 1950,	11,760.00	400.00
Robert H. Eddy,		
University Houses and Lands,	56,787.00	112.97
Richard W. Foster,		
Real Estate, Cambridge,	20,918.57	.....
John Davis Williams French,		
University Houses and Lands,	5,322.09	3.12
Christopher Gore,		
Real Estate, Cambridge,	20,571.18	.....
John C. Gray,		
University Houses and Lands,	25,000.00	48.35
Harvard Endowment Fund (part),		
25 shares Abitibi Power & Paper Co., Ltd., com.,	1,060.00	129.47
35 " Acme Packing Co.,	175.00	.....
5 " Allied Chemical & Drug Co.,	445.00	8.75
500 " American Locomotive Co.,	50,000.00	3,000.00
7 " American Multigraph Co., common,	195.00	11.90
17 " American Spinning Co.,	5,100.00	1,020.00
135 " American Woolen Co., common, . .	20,852.65	945.00
100 " D. Appleton & Co., Inc., preferred, .	9,000.00	1,050.00
100 " Associated Dry Goods Corp., com., .	5,000.00	400.00
30 " Baush Machine Tool Co.,	Sold during yr.	60.00
2 " Belmont Coöperative Society, . . .	50.00	3.00
50 " Bethlehem Steel Co., com., Series B,	5,206.25	250.00
140 " Bigelow-Hartford Carpet Co., com.,	15,110.00	1,400.00
5 " Brandon Mills,	1,150.00	75.00
25 " Brazor Oil Corporation,	500.00	.....
500 " British-American Tobacco Co., Ltd., ordinary,	13,875.00	281.54
99 " Carib Syndicate, Ltd.,	5,272.04	.....
100 " Carson Hill Gold Mining Co., . . .	2,500.00	.....
1000 " Cascade Silver Mines & Mill Co., . .	1,000.00	.....
50 " Claverly Trust,	1.00	.....
242 " Columbia Graphophone Mfg. Co., com.,	12,359.23	165.25
4 " Commonwealth Petroleum Corp., . .	Sold during yr.	.....
3 " Consolidated Cigar Corp., common, .	164.01	21.00
1000 " Consumers Oil & Shale Co.,	80.00	.....
90 " Crowell & Thurlow Steamship Co., .	2,220.00	135.00
100 " E. I. du Pont de Nemours & Co., . .	8,400.00	450.00
100 " Eastern Manufacturing Co., 2d pfd.,	9,800.00	700.00
20 " Eisemann Magneto Corp., preferred,	1,860.00	140.00
28 " Elders Corporation, common,	1,036.00	21.00
Amounts carried forward,	\$776,672.45	\$14,875.46

		Principal.	Net Income.
Amounts brought forward,		\$776,672.45	\$14,875.46
Harvard Endowment Fund (part) (continued).			
22 shares	Emerson-Brantingham Co., pfd., . .	2,046.00	77.00
110 "	Endicott-Johnson Co., common, . .	14,250.64	550.00
18 "	Fall River Electric Light Co., . . .	1,885.50	144.00
10 "	Famous Players-Lasky Corp., . . .	Sold during yr.	19.60
1 "	General Electric Co.,	121.00	.....
30 "	General Motors Corp., common, . .	896.02	30.00
6 "	Gillette Safety Razor Co.,	1,075.36	72.00
575 "	B. F. Goodrich Co., common, . . .	45,968.75	2,587.50
225 "	Gray & Davis, Inc., common, . . .	10,696.87	.....
50 "	Great Lakes Power Co., Ltd., pfd., .	4,800.00	315.00
1 "	Henry Jewett Players, Inc., pfd., . .	1.00	.....
350 "	Hood Rubber Products Co., pfd., . .	35,000.00	2,450.00
50 "	Indian Packing Corp., common, . .	Sold during yr.	12.50
160 "	Inspiration Consolidated Copper Co.,	9,683.50	320.00
50 "	Invincible Oil Corp.,	1,900.00	.....
10 "	Lake Placid Co., preferred,	505.00	30.00
150 "	Liggetts' International, Ltd. 8% pfd.	7,812.50	450.00
20 "	Loose-Wiles Biscuit Co., 2d pfd., .	2,060.00	69.20
83 "	Manomet Mills,	12,406.29	830.00
20 "	Maolis Land Co., common,	500.00	.....
20 "	Marine Associates,	960.40	40.00
15 "	Marland Refining Co.,	120.00	3.76
26 "	May Department Stores, common, .	2,349.04	208.00
100 "	Molybdenum Corporation of America, common,	300.00	.....
25 "	Nash Motors Co., common,	10,000.00	400.00
5 "	National Aniline & Chemical Co., pfd.,	Sold during yr.	26.25
10 "	National Bank of Commerce, . . .	2,500.00	150.00
100 "	New Cornelia Copper Co.,	2,400.00	25.00
20 "	New England Fuel Oil Co.,	1,500.00	15.00
10 "	New England Publishers Service, Inc., preferred,	50.00	3.50
10 "	Olympia Theatres, Inc.,	1,000.00	70.00
100 "	Pacific Mills, common,	17,500.00	1,700.00
100 "	Phillips-Jones Corp., common, . . .	7,700.00	.....
10 "	Pond Creek Coal Co.,	290.00	13.75
53 "	The Pure Oil Co.,	2,322.62	103.00
9 "	Revere Securities Co.,	245.00	.....
156 "	Royal Dutch Co., New York, . . .	10,355.62	916.91
15 "	Saco-Lowell Shops,	2,727.90	90.00
20 "	Shawmut Steamship Co.,	Sold during yr.	12.50
10 "	Southern Pacific R. R.,	915.45	30.00
1 "	Standard Oil Co. of New Jersey, com.,	717.00	20.00
1 "	Standard Oil Co. of New Jersey, cum. 7% preferred,	100.00	7.00
45 "	Stonega Coke & Coal Co., preferred,	3,720.00	168.00
Amounts carried forward,		\$996,053.91	\$26,834.93

		Principal.	Net Income.
Amounts brought forward,		\$996,053.91	\$26,834.93
Harvard Endowment Fund (part) (continued).			
10 shares	Submarine Signal Co.,	200.00	5.00
45 "	Sullivan Machinery Co.,	2,400.00	180.00
50 "	Swift Internacional Compania, . . .	2,687.50	120.00
132 "	Texas-Pacific Coal & Oil Co., . . .	15,769.85	147.75
4 "	Union Oil Co.,	208.00	32.00
80 "	United Carbon & Carbide Co., . . .	6,006.90	434.60
100 "	United Drug Co., 1st preferred, . .	Sold during yr.	87.50
40 "	United Drug Co., common,	5,720.89	320.00
88 "	United Fruit Co.,	8,655.00	591.84
100 "	U. S. Smelting, Refining & Mining Co., common,	7,100.00	350.00
100 "	U. S. Steel Corp., common,	11,037.50	500.00
100 "	U. S. Worsted Co., 1st preferred, .	10,000.00	.....
10 "	University Auxiliary Association, .	1,000.00	50.00
60 "	Warren Brothers Co., 2d pfd., . . .	2,280.00	157.50
2 "	S. D. Warren Co., preferred, . . .	204.00	12.00
11 "	Washburn Wire Co., common, . . .	3,465.00	197.56
225 "	White Oil Corp.,	8,950.00	.....
1 "	Worthington Pump & Machinery Co., Scrip. Worthington Pump & Machinery Co.,	106.50 81.00	6.00
	\$500 American Ship & Construction Co. 10 yr. 10s,	630.00	.....
25,100	Anglo-French 5 yr. 5's of Oct. 1920, . . .	Sold during yr.	627.50
30,000	Appalachian Power Co. 1st S. F. 5's of 1931,	19,500.00	750.00
2,000	Bela Body Co. 6% Notes of 1922,	1,800.00	120.00
5,000	Bell Telephone Co. of Canada Deb. 5's of 1925,	4,612.50	221.88
5,000	Boston & Albany R. R. Imp. 4's of 1935, .	4,112.50	200.00
150	Boston City Club 5's of 1923,	127.50	7.50
2,000	Butte Electric Co. 1st 5's of 1950,	1,840.00	100.00
1,000	Chicago Auditorium Assn. 1st 5's of 1929,	725.00	50.00
1,000	Chicago Railways Co. Adj. Inc. 4's of 1927,	360.00	.....
18,500	City of Montgomery 6's of 1928 (65% pd.),	7,179.19	595.50
2,000	City of New Orleans 5's of 1932,	2,000.00	100.00
1,000	Colonial Parkway Building 1st & R. E. 6's of 1926,	1,000.00	60.00
1,000	Connecticut River Power Co. 1st 5's of 1937,	900.00	50.00
4,000	County of Harris, Texas, C. H. 4's of 1948,	3,140.00	160.00
1,000	County of Harris, Texas, Road & Bldg. 4½'s of 1949,	785.00	45.00
3,000	Current River R. R. 5's of 1937,	2,700.00	150.00
100	D. K. E. Holding Corp. 5's of 1942,	70.00	5.00
1,000	Dominion of Canada 3d War Loan 5's of 1937,	920.00	50.00
5,000	Dominion of Canada 10 yr. W. L. 5's of 1925,	4,925.00	110.31
1,000	El Paso Electric Co. Col. Trust 5's of 1932,	850.00	50.00
5,000	Empire Refining Co. 1st S. F. 6's of 1927,	4,500.00	300.00
5,000	Everett Ry. Light & Water Co. 1st 5's of 1925,	4,000.00	250.00
Amounts carried forward,		\$1,148,602.74	\$34,029.37

	Principal.	Net Income.
Amounts brought forward,	\$1,148,602.74	\$34,029.37
Harvard Endowment Fund (part) (continued).		
Fr. 1,000 French Republic Rent. 5's,	Sold during yr.	1.66
\$60,000 General Electric Co. 6's of 1940,	56,700.00	3,430.01
£600 Grand Trunk Pacific Ry. Branch Lines 4's of 1939,	2,040.00	106.64
\$32,500 Harvard Club of New York City 2d S. F. 6's of 1939,	32,500.00	1,950.00
100 The Harvard Lampoon Soc'y 2d 4½'s of 1929,	65.00	.....
500 Hudson & Manhattan R. R. 1st R. M. 5's of 1957,	290.00	25.00
5,000 Interborough Rapid Transit 1st R. M. 5's of 1966,	2,600.00	250.00
1,000 Kansas City Terminal Ry. 6's of 1923,	700.00	60.00
300 Longwood Cricket Club 2d 4's of 1921,	150.00	12.00
7,000 Louisville & Jeffersonville Bridge Co. 4's of 1945,	4,900.00	420.00
4,000 Low-Moor Iron Co. 1st 6's of 1924,	3,200.00	210.00
500 Merchants Heat & Light Co. 5's of 1922,	455.00	12.50
500 Mississippi River Power Co. 1st 5's of 1951,	383.28	27.50
5,000 Montpelier & Barre Light & Power Co. 1st 5's of 1944,	4,300.00	250.00
100 910 Fifth Ave. Apartment Bldg. 6's of 1931,	100.00	.....
11,000 Northern Pacific-Great Northern Joint 4's of 1921,	Sold during yr.	440.00
3,000 Pacific Electric Ry. Co. Ref. Mtg. 5's of 1961,	2,250.00	150.00
500 Parish of St. Mary, La. 5's of 1945,	505.00	12.50
1,000 Peoples Gas Light & Coke Co. Ref. Mtg. 5's of 1947,	570.00	50.00
1,000 Remington Typewriter Co. Conv. 6's of 1923,	990.00	60.00
1,000 Southern Hotel Bldg. 1st & R. E. 6's of 1926,	1,000.00	60.00
25,000 Southern Menhaden Corp. 1st 6's of 1929,	20,000.00	1,500.00
2,000 Southwest Missouri R. R. Ref. 5's of 1931,	1,300.00	100.00
500 Toledo & Findlay R. R. 1st 5's of 1935,	325.00	12.50
100 Union Boat Club 2d S. F. 5's of 1934,	80.00	5.00
5,450 U. S. A. 1st Liberty Loan 3½'s of 1847,	5,103.06	103.25
50 U. S. A. 1st Liberty Loan conv. 4's of 1947,	Sold during yr.	1.00
950 U. S. A. 1st Liberty Loan conv. 4¼'s of 1947,	835.10	17.00
100 U. S. A. 2d Liberty Loan 4's of 1942,	87.99	22.00
70,900 U. S. A. 2d Liberty Loan conv. 4¼'s of 1942,	64,572.30	2,628.50
40,150 U. S. A. 3d Liberty Loan 4¼'s of 1928,	37,085.33	1,441.97
129,100 U. S. A. 4th Liberty Loan 4¼'s of 1933-38,	117,510.98	4,972.50
25,000 U. S. A. 5th Victory Loan 4¾'s of 1923,	24,152.03	379.51
755 U. S. A. War Savings Stamps Series 1918,	3,367.91	.....
2 U. S. A. War Savings Stamps Series 1919,	5.42	.....
201 U. S. A. War Savings Stamps Series 1920,	850.23	.....
5,000 United States Worsteds Co. 6% Certificate,	4,500.00	.....
Amounts carried forward,	\$1,542,076.37	\$52,740.41

	Principal.	Net Income.
Amounts brought forward,	\$1,542,076.37	\$52,740.41
Harvard Endowment Fund (part) (continued).		
\$400 University Club of Los Angeles 2d 6's of 1947,	320.00	12.00
2500 University Club of Pittsburgh 1st 5's of 1932,	2,000.00	.....
400 Vesper Country Club 1st 5's of 1940,	200.00	10.00
3,000 Washington Water Co. 4's of 1931,	1,500.00	.....
500 Washington Water Power Co. 20 yr. 5's of 1939,	420.00	7.50
100 Woods Mobilette Co. conv. 6's of 1921,	80.00	.....
1,000 York Community High School Bldg. 5's of 1931,	800.00	50.00
Note receivable 6% due January 1, 1923,	700.00	42.00
Harvard Endowment Fund — William Reed Scholarship,		
500 Hargraves Mills 1st 5's of 1932,	500.00	25.00
Harvard Endowment Fund — Graduate School of Business Administration,		
20 shares Old Colony Trust Co.,	5,500.00	240.00
Harvard Endowment Fund — Henry N. Sweet Fund,		
60 shares American Bosch Magneto Corp.,	6,022.84	500.00
Walter Hastings,		
Real Estate, Sacramento St., Cambridge,	20,000.00	1,520.26
Henry L. Higginson,		
University Houses and Lands,	29,676.55	59.39
Real Estate, Cambridge,	70,323.45	.....
Insurance and Guaranty,		
Real Estate, Lucas St., Boston,	Sold during yr.	.....
Mortgage Note on property, 66 Lucas St., Boston,	Paid during yr.	12.50
Leonard Jarvis,		
University Houses and Lands,	16,871.63	33.38
Henry P. Kidder,		
Real Estate, Cambridge,	10,000.00	.....
Joseph Lee,		
University Houses and Lands,	10,000.00	20.28
Israel Munson,		
University Houses and Lands,	15,750.00	31.19
Francis E. Parker,		
University Houses and Lands,	113,817.44	226.31
Henry L. Pierce (Residuary) (part),		
Equipment at Memorial Hall,	118,440.48	6,844.42
Claverly Trust,	95,000.00	.....
Henry Villard,		
University Houses and Lands,	50,000.00	101.38
William F. Weld,		
University Houses and Lands,	100,000.00	202.76
Amounts carried forward,	\$2,209,998.76	\$62,678.78

	Principal.	Net Income.
Amounts brought forward, . . .	\$2,209,998.76	\$62,678.78
Thomas G. Mower Memorial,		
10 shares Bank of New York,	3,680.00	208.00
32 " Boston & Albany R. R.	4,000.00	280.00
10 " Delaware & Hudson Co.,	910.00	90.00
\$1,000 American Dock & Improvement Co. 1st 5's of 1921,	960.00	50.00
1,000 Broadway & Seventh Ave. Ry. 1st 5's of 1943,	400.00	50.00
1,000 Chicago, Burlington & Quincy R. R. S. F. 4's of 1927,	870.00	40.00
1,000 Houston & Texas Central R. R. 1st 5's of 1937,	860.00	50.00
1,000 New York, Chicago & St. Louis R. R. 1st 4's of 1937,	700.00	40.00
1,000 New York, Susquehanna & Western R. R. 1st 5's of 1937,	550.00	50.00
1,000 Pennsylvania Company 4½'s of 1921, . . .	965.00	45.00
1,000 Reading Co. & P. & R. Coal & Iron Co. G. M. 4's of 1997,	760.00	40.00
1,000 Rome, Watertown & Ogdensburg R. R. 1st 5's of 1922,	950.00	50.00
1,000 Union Pacific R. R. 1st & L. G. 4's of 1947,	790.00	40.00
1,000 West Shore R. R. 1st 4's of 2361,	700.00	40.00

Fiske Warren Fund,

50 shares Trustees of Tahanto, Rent Chge. No. 46,	1.00
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COLLEGE

Edward Atkinson Fund.

38 shares American Tel. & Tel. Co.,	Sold during yr.	304.00
50 " Canadian-Connecticut Cotton Mills Co.,	5,000.00	425.00
50 " Marine Associates,	3,901.00	100.00
50 " Nonquitt Spinning Co.,	6,500.00	800.00
75 " West End Street Ry. Co., preferred, .	3,937.50	300.00

Edward R. Bacon Art Scholarship Fund.

60 Shares American Smelting & Refining Co., pfd.,	4,500.00	105.00
125 " Atchison, Topeka & Santa Fe R. R., pfd.,	9,375.00	.....
125 " Baltimore & Ohio R. R., preferred, .	6,078.13	.....

Daniel A. Buckley (part),

Real Estate in Cambridge, Mass.,	65,558.47	8,350.33
" " Deer Isle, Me.,	1.00	.....

**Victor Emanuel Chapman Memorial
Fellowship,**

\$5,000 American Tel. & Tel. Co. conv. 4½'s of 1933,	5,000.00	225.00
1,000 Baltimore & Ohio R.R. 3½'s of 1925, . . .	1,000.00	35.00
1,000 City of Cambridge Bridge Loan 4's of 1921,	1,000.00	40.00
1,000 Fitchburg R.R. 4's of 1925,	1,000.00	40.00

Amounts carried forward, . . . \$2,339,945.86 \$74,476.11

Principal. Net Income.

Amounts brought forward, . . . \$2,339,945.86 \$74,476.11

Victor Emanuel Chapman Memorial**Fellowship** (*continued*).

\$2,000 Northern Pacific-Great Northern Rys. Joint

4's of 1921, Sold during yr. 80.00

Howard Rogers Clapp Scholarship,

\$6,000 U. S. A. 4th Liberty Loan 4½'s, 5,501.15 255.00

George Newhall Clark,

100 shares St. Joseph R'y, Light, Heat & Power Co.,

preferred, 10,000.00 500.00

Class of 1888 (part),

25 shares Hotel Realty Co., 2,000.00 125.00

70 " United Fruit Co., 7,000.00 490.00

Class of 1889 (part),

4 shares Claverly Trust, 1,000.00

500 University Building Co. 2d 6's of 1929, . . 500.00 30.00

Class of 1890,

10 shares New York, New Haven & Hartford R. R. 285.00

\$1,200 Oakwood Club 5's of 1939, 1,020.00 55.00

1,000 U. S. A. 4th Liberty Loan 4½'s, 855.00 42.50

Class of 1892,

\$100,000 U. S. A. 1st Liberty Loan 3½'s, 100,000.00 3,500.00

Class of 1893,

\$500 U. S. A. 1st Liberty Loan 3½'s, 474.84 17.50

25,000 U. S. A. 1st Liberty Loan 4's, 23,675.84 1,062.50

7,000 U. S. A. 2d Liberty Loan 4½'s, 6,674.08 297.50

14,650 U. S. A. 3d Liberty Loan 4½'s, 14,205.37 622.61

Class of 1894,

4,600 U. S. A. 1st Liberty Loan 4½'s, 4,370.00 195.50

6,000 U. S. A. 2d Liberty Loan 4½'s, 5,654.88 255.00

11,050 U. S. A. 3d Liberty Loan 4½'s, 10,497.50 469.61

26,000 U. S. A. 4th Liberty Loan 4½'s, 24,440.00 1,105.00

6,000 U. S. A. 5th Victory Loan 4¾'s, 5,998.32 285.00

Edward W. Codman (part),

100 shares Pacific Mills, 8,310.00 1,700.00

10 " Barristers Hall Trust, 710.20 50.00

University Houses and Lands, 120,000.00 237.07

Harvard Riverside, 47,232.59

Edward Erwin Coolidge,

200 shares U. S. Smelting, Ref. & Mining Co., pref'd, 9,000.00 700.00

Charles Dexter Memorial.

10 shares Baltimore & Ohio R. R. common, . . . 477.50

3 " Baltimore & Ohio R. R. preferred, . . 165.00 12.00

1 " Farmers & Shippers Leaf Tobacco Ware-

house Co. 2d preferred, 5.00

100 " New York Central R. R., 8,000.00 500.00

Amounts carried forward, \$2,757,998.13 \$87,062.90

	Principal.	Net Income.
Amounts brought forward,	\$2,757,998.13	\$87,062.90
Charles Dexter Memorial (<i>continued</i>).		
130 shares Pennsylvania R. R.,	5,720.00	357.50
75 " U. S. Steel Corporation, preferred, . .	8,737.50	525.00
\$4,000 New York Central R. R. 20 yr. conv. 6's of 1935,	3,900.00	240.00
Alexis Irenée Du Pont Fund,		
\$100,000 Anglo-French Ext. Loan 5's of 1920, . .	Sold during yr.	2,500.00
William Everett Fund,		
10 shares Chicago & Northwestern R. R.,	930.00	50.00
14 " General Electric Co.,	1,398.99	108.00
10 " Great Northern R. R. pref'd,	920.00	70.00
18 " Pennsylvania,	792.00	49.50
Augusta P. Hope Fund,		
\$4,000 St. Louis & Southwestern R. R. 4's of 1932,	2,200.00	160.00
100 U. S. A. 1st Liberty Loan 3½'s,	91.00	5.25
200 U. S. A. 3d Liberty Loan 4½'s,	177.64	8.48
550 U. S. A. 4th Liberty Loan 4½'s,	468.60	23.40
200 U. S. A. 5th Victory Loan 4¾'s,	191.44	15.29
Charles W. Hubbard Fund,		
\$10,000 U. S. Steel Corp. S. F. 5's of 1963, . . .	10,000.00	500.00
Franklin Temple Ingraham Memorial.		
30 shares Duquesne Light Co., preferred, . . .	2,760.00	210.00
50 " Nassau Light & Power Co.,	5,250.00	450.00
40 " Pennsylvania R. R.,	1,760.00	110.00
\$10,000 U. S. of America 4th Liberty Loan 4½'s, . .	9,560.00	425.00
Morris Loeb Bequest (part),		
Mortgage Notes,	152,000.00	4,350.00
400 shares American Tel. & Tel. Co.,	Sold during yr.	3,200.00
200 " Amoskeag Manufacturing Co., preferred,	19,800.00	900.00
12 " Boston Real Estate Trust,	13,320.00	480.00
500 " Congress Street Associates,	48,750.00	1,750.00
200 " Edison Electric Illuminating Co. of Boston,	51,800.00	2,400.00
500 " Massachusetts Gas Co., preferred, . .	47,500.00	2,000.00
500 " Trimountain Trust,	50,000.00	2,250.00
250 " Western Real Estate Trust,	33,750.00	1,750.00
400 " Western Union Telegraph Co.,	25,317.00	2,800.00
Charles Nicholas McCall,		
Claverly Trust,	80,000.00	.....
Emily H. Moir Bequest (part),		
4 shares Emily H. Moir Estate, Inc.,	1.00	.....
University Houses and Lands,	32,000.00	62.37
Charles Eliot Norton Fellowship,		
\$15,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. collateral) of 1921,	Sold during yr.	600.00
5,000 Louisville & Nashville Unified M. 4's of 1940,	5,000.00	200.00
Amounts carried forward,	\$3,372,093.30	\$115,612.69

	Principal.	Net Income.
Amounts brought forward,	\$3,372,093.30	\$115,612.69
Oliver Professorship of Hygiene (part), Policy of Mass. Hospital Life Insurance Co., . .	5,000.00	237.50
John Knowles Paine Fellowships in Music, Mortgage Notes,	17,000.00	1,360.00
George Foster Peabody Scholarship, \$6,000 Mexican Coal & Coke Co. 1st M., S. F. 5's of 1926,	4,800.00	.....
Stanley Bagg Pennock Scholarship, 100 shares Pennsylvania,	5,000.00	275.00
William Reed Scholarship, \$1,000 New York Central & H. R. Gold 3½'s of 1997, . .	1,000.00	35.00
Nelson Robinson Jr. Additional (part), 1,750 shares Gauley Coal Land Co., preferred, . .	175,000.00	.....
Eliza O. and Mary P. Ropes (part), 100 shares Chicago, Milwaukee & St. Paul, . . .	13,071.88	.....
100 " Northern Pacific,	11,986.50	700.00
220 " Pennsylvania,	12,888.50	605.00
Josiah Royce Memorial Fund, 350 U. S. of America 3d Liberty Loan 4½'s of 1928, . .	349.48	14.84
Wallace C. Sabine Memorial, \$12,000 U. S. A. 2d Liberty Loan 4½'s,	12,000.00	510.00
17,000 U. S. A. 3d Liberty Loan 4½'s,	17,000.00	722.50
18,000 U. S. A. 4th Liberty Loan 4½'s,	18,000.00	765.00
50,000 U. S. A. Victory Loan 4½'s,	50,000.00	2,375.00
Dunlap Smith Scholarship, \$5,000 Metropolitan West Side Elevated R. R. Ex- tension M. 4's of 1938,	4,700.00	200.00
Somerville Scholarship, \$6,000 U. S. A. 4th Liberty Loan 4½'s,	5,242.80	.....
Henry Baldwin Stone Memorial, \$66,000 Mississippi River Power Co. 1st M. 5's of 1951,	53,460.00	3,300.00
Stoughton Scholarship (part), Real Estate in Dorchester,	298.42	.....
Teachers' Endowment (part), 50 shares Broadway Realty Co., preferred, . . Exch'd for bonds.		
\$5,000 The Broadway Realty Co. 6's of 1940, . .	5,000.00	325.00
50,000 Wisconsin Central, Minneapolis Terminal Purchase Money M. 3½'s of 1950,	50,000.00	1,750.00
Lee Wade II Prize Fund, \$1,000 School District of the Borough of Olyphant 5's of 1943,	1,000.00	50.00
Samuel Ward's Gift (part), Ward's (Bumkin) Island, Boston Harbor,	1.00	.....
Amounts carried forward,	\$3,834,891.88	\$128,837.53

	Principal.	Net Income.
Amounts brought forward,	\$3,834,891.88	\$128,837.53
Gordon Wendell (part),		
\$2,000 Chicago, Burl. & Quincy R. R. (Ill. Div.)		
4's of 1949	2,000.00	80.00
Alfred Tredway White Endowment.		
500 shares American Tel. & Tel. Co.,	Sold during yr. 4,000.00	
200 " Holly Sugar Corp., preferred,	15,600.00	350.00
300 " Southern Pacific Co.,	23,550.00	444.00

GRADUATE SCHOOL OF EDUCATION

Graduate School of Education—Charles W. Eliot (Fund),

Includes the following Funds :

Walter F. Baker,	\$80,908.53	
W. H. Baldwin,	2,000.00	
Andrew Bigelow,	4,950.00	
Stanton Blake,	5,000.00	
Theodore Lyman,	10,000.00	
Robert C. McIlwain,	7,718.49	
H. S. Nourse (part),	33,171.82	
William Perkins,	30,000.00	
Ezekial Rogers,	3,535.00	
John L. Russell,	23,370.03	
Isaac Sweetser,	46,913.13	
Seth Turner,	5,000.00	
Harvard Endowment (part),	247,433.00	
	<u>\$500,000.00</u>	
\$50,000 U. S. A. 2d Liberty Loan Conv. 4½'s,	44,550.00	2,125.00
100,000 U. S. A. 3d Liberty Loan Conv. 4½'s,	93,040.00	4,250.00
350,000 U. S. A. 4th Liberty Loan 4½'s,	314,090.00	14,875.00
50,000 U. S. A. 5th Liberty Loan 4½'s,	48,320.00	2,375.00

Harvard Endowment Fund (Part),

\$250,000 Pennsylvania R. R. 7's of 1930,	249,375.00	15,750.00
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Richard Black Sewall Bequest,

75 shares American Sugar Refining Co.,	9,900.00	637.50
500 " American Tel. & Tel. Co.,	Sold during yr. 4,000.00	
25 " American Tissue Mills,	2,500.00	43.75
148 " Atchison, Topeka & Santa Fe R. R.,	13,024.00	740.00
90 " Boston Elevated Ry. Co.,	6,570.00	483.75
32 " Central States Electric Corp., pfd.,	1,920.00	224.00
24 " Central States Electric Corp., com.,	360.00	.....
40 " Clifton Manufacturing Co.,	2,600.00	560.00
5 " Columbus Manufacturing Co.,	810.00	100.00
25 " Congress Street Building Trust,	750.00	.....
25 " Cornell Mills,	4,375.00	525.00
2 " Eastern Mass. St. Ry. Adj. Stock,	1.00	.....
10 " Federal Wharf Storage Co.,	1.00	.....

Amounts carried forward, \$4,668,227.88 \$180,400.53

Principal. Net Income.

Amounts brought forward, . . . \$4,668,227.88 \$180,400.53

Richard Black Sewall Bequest (continued).

12 shares	Fisher Body Corporation, common, .	1,092.00	120.00
50 "	Galveston-Houston Electric Co., pfd.,	3,250.00	300.00
8 "	Galveston-Houston Electric Co., com.,	128.00	.....
200 "	Herr Automatic Press Co., . . . . .	.....	25.00
50 "	Investors Securities Corp., preferred,	4,500.00	300.00
10 "	Investors Securities Corp., common,	400.00	15.00
25 "	Japanese Tissue Mills, preferred, . .	Sold during yr.	131.25
125 "	Massachusetts Electric Co., preferred, .	Sold during yr.	.....
50 "	Massachusetts Gas Co., preferred, .	4,000.00	200.00
25 "	Metropolitan Associates, preferred, .	450.00	25.00
4 "	National Sugar Refining Co.,	380.00	46.00
100 "	New York Central R. R.,	7,249.00	500.00
27 "	Old Colony R. R. Co.,	2,592.00	189.00
25 "	Pemberton Building Trust,	875.00	93.75
91 "	Pennsylvania R. R.,	4,186.00	250.25
25 "	Real Estate Improvement Trust, . .	625.00	150.00
27 "	Tide Water Oil Co.,	4,798.85	378.00
50 "	Torrington Co., preferred,	1,450.00	87.50
15 "	Torrington Co., common,	960.00	75.00
33 "	Union Pacific R. R., preferred, . . .	2,409.00	132.00
5 "	Union Pacific R. R., common, . . .	655.00	50.00
146 "	United Fruit Co.,	13,505.00	1,022.00
150 "	United Shoe Machinery Corp., pfd., .	4,050.00	225.00
45 "	United Shoe Machinery Corp., com.,	2,250.00	135.00
51 "	U. S. Light & Heat Corp., preferred,	153.00	.....
5 "	U. S. Light & Heat Corp., common,	7.50	.....
25 "	Utah Power & Light Co., preferred, .	2,250.00	175.00
75 "	Western Real Estate Trustees, . . .	8,625.00	525.00
75 "	Western Union Telegraph Co., . . .	6,675.00	525.00
15 "	West Point Manufacturing Co., . .	2,037.80	175.00
\$5,000 Atlantic Coast Line R. R. 1st Con. M. 4's of			
	1952,	4,100.00	200.00
5,000 Birmingham Ry. Light & Power Co. Ref. &			
	Ext. 6's of 1957,	3,925.00	300.00
2,500	Boston & Maine R. R. 10 yr. 6's of 1930, . .	2,300.00	150.00
2,000	Cedar Rapids Mfg. & Power Co. 1st 5's of 1953,	1,740.00	100.00
5,000	Columbus Manufacturing Co. 1st 5's of 1929,	4,900.00	250.00
5,000	Chicago, Indiana & Southern R. R. 4's of 1956,	4,000.00	200.00
2,000	Denver & Rio Grande R. R. 1st & Ref. 5's of		
	1955,	1,120.00	100.00
1,250	Eastern Mass. Street Ry. Ref. Mtg. 5's of		
	1948,	1,210.63	.....
2,000	Federal Wharf & Storage Co. 1st 5's of 1912		
	(Certificate of Deposit),	1,200.00	.....
5,000	Florida West Shore Ry. Co. 1st 5's of 1934,	3,600.00	250.00

Amounts carried forward, . . . \$4,775,876.66 \$187,800.28

Amounts brought forward, \$4,775,876.66 \$187,800.28

Richard Black Sewall Bequest (*continued*).

\$5,000 Fort Smith Light & Traction Co. 1st 5's of 1936,			3,500.00	250.00
5,000 Galveston Electric Co. 1st 5's of 1940,			3,900.00	250.00
2,000 Idaho Power Co. 1st 5's of 1947,			1,720.00	100.00
2,000 Imperial Russian Govt. 5½'s of 1921,			940.00	.....
5,000 Kansas City Terminal Ry. Co. 1st 4's of 1960,			3,950.00	200.00
5,000 Louisville & Nashville Terminal 1st 4's of 1952,			3,550.00	200.00
2,000 New England Co. Deb. 6's of 1925,			1,840.00	120.00
7,000 Oregon R. R. & Navigation Co. Con. M. 4's of 1946,			5,740.00	280.00
5,000 Peoples Gas Light & Coke Co. Ref. M. 5's of 1947,			3,700.00	250.00
5,000 U. S. A. 2d Liberty Loan 4½'s,			4,700.00	212.50
5,000 Wisconsin Edison Co. Inc. Deb. 6's of 1924,			4,450.00	300.00

LIBRARY

Anonymous Library Fund,

200 shares Washington Water Power Co.,	25,000.00	1,350.00
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Edwin Swift Balch, Class of 1878 Fund,

\$3,000 U. S. A. 3d Liberty Loan 4½'s,	3,000.00	127.50
2,000 U. S. A. 2d Liberty Loan 4's,	2,000.00	85.00

William R. Castle Fund,

\$1,000 Digamma Club 4½'s of 1926,	900.00	45.00
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Peter P. F. Degrand Fund,

50 shares Trimountain Trust,	4,500.00	225.00
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George Schuneman Jackson Fund,

5 shares Chicago Real Estate Trust,	4,500.00	124.80
3 " Noble & Greenough School Real Estate Trust,	1.00	.....
175 " Submarine Signal Co.,	1,750.00	84.14
20 " Western Seamless Pail Co., common,	1.00	.....
20 " Western Seamless Pail Co., preferred,	1.00	.....
\$100 City Club of Chicago 5's of 1941,	50.00	5.00
5,000 Erie Railroad Conv. 4's of 1952,	2,450.00	100.00
48 shares Commonwealth Edison Co.,	Sold during yr.	96.00

Wainwright Merrill Memorial,

\$550 U. S. A. 3d Liberty Loan Conv. 4½'s,	521.07	23.34
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Francis Parkman Memorial (part),

\$5,000 Louisville & Jeffersonville Bridge 1st M. Gold 4's of 1945,	4,500.00	200.00
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John Harvey Treat (part),

130 Shares Treat Hardware Supply Co.,	1,300.00	1,040.00
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Ichabod Tucker (part),

Policy of Mass. Hospital Life Insurance Co.,	5,000.00	237.50
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Amounts carried forward, \$4,869,340.73 \$193,706.06

LAW SCHOOL

	Principal.	Net Income.
Amounts brought forward,	\$4,869,340.73	\$193,706.06
James and Augusta Barnard Law Fund,		
60 shares American Tel. & Tel. Co.,	Sold during yr.	480.00
17 " Boston & Albany R. R. Co.,	3,060.00	148.75
1 " Eastern Massachusetts St. Ry., Adj. Stock,	1.00	.....
\$700 Eastern Massachusetts St. Ry. Ref. Mtg. 5's of 1948,	678.36	.....
4,000 Kansas City Elevated Ry. Gen. M. 4's of 1922,	2,800.00	.....
70 shares Massachusetts Electric Co., preferred,	Sold during yr.	.....
15 " Worcester Consolidated Street Ry. Co., 1st preferred,	1,330.50	.....

William Cheney Brown, Jr. Scholarship.

2000 U. S. A. 3d Liberty Loan 4½'s,	2,000.00	85.00
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Shelton Hale Scholarship,

\$1,200 U. S. A. 1st Liberty Loan Conv. 4½'s,	1,053.84
800 U. S. A. 2d Liberty Loan Conv. 4½'s,	688.00
100 U. S. A. 3d Liberty Loan 4½'s,	91.48	.....
500 U. S. A. 4th Liberty Loan 4½'s,	435.00	.....
6 shares Union Pacific R. R., common,	693.00	.....
12 " Union Pacific R. R. preferred,	774.00	.....

Robert Darrah Jenks Scholarship.

\$1000 U. S. A. 2d Liberty Loan 4½'s,	1,000.00	42.51
500 U. S. A. 3d Liberty Loan 4½'s,	500.00	21.22

Joshua Montgomery Sears, Jr. Memorial (part).

\$10,000 Minneapolis General Electric Gold M. 5's of 1934,	10,000.00	500.00
10,000 New England R. R. Consol. M. 5's of 1945,	10,000.00	500.00

MEDICAL SCHOOL

Gordon Bartlett Scholarship.

\$10,000 U. S. A. 3d Liberty Loan 4½'s,	10,000.00	425.00
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Robert Charles Billings (part),

Real Estate, Wigglesworth St. & Power House, Vila St., Boston (part),	100,000.00	5,000.00
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John B. and Buckminster Brown Endowment,

52 shares Pennsylvania R. R.,	2,600.00	143.00
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John White Browne Scholarship,

\$3,000 American Tel. & Tel. 4's of 1929,	2,475.00	120.00
2,000 Commonwealth Edison Co. 5's of 1943,	1,840.00	100.00
5,000 Oregon Short Line R. R. 4's of 1929,	4,200.00	200.00
4,000 Sierra & San Francisco Power Co. 5's of 1949,	3,000.00	200.00
1,000 Texas Power & Light Co. 5's of 1937,	840.00	50.00
3,000 Wisconsin-Minnesota Light & Power Co. 5's of 1944,	2,460.00	150.00

Amounts carried forward, \$5,031,860.91 \$201,871.54

	Principal.	Net Income.
Amounts brought forward,	\$5,031,860.91	\$201,871.54
John C. Cutter Bequest,		
\$6,250 Carthage Water Power Co., 1st M. 5% Notes,	1.00	.....
Dr. Henry Isaiah Dorr Chair of Research and Teaching,		
\$5,000 Boston Elevated Ry. 5's of 1942,	5,000.00	250.00
10,000 Chicago, Burlington & Quincy R.R. 3½'s of 1949,	10,000.00	350.00
5,000 Dominion of Canada 5's of 1937,	5,000.00	250.00
10,000 Illinois Central R.R. 3½'s of 1953,	10,000.00	350.00
5,000 Lake Shore & Michigan Southern R.R. 3½'s of 1997,	5,000.00	175.00
5,000 Lake Shore & Michigan Southern R.R. 4's of 1931,	5,000.00	200.00
4,000 Lynn & Boston R. R. 5's of 1924,	3,960.00	300.00
5,000 Michigan State Tel. Co. 5's of 1924,	5,000.00	250.00
5,000 N. Y. C. & H. R. R. R. 3½'s of 1997,	5,000.00	175.00
20,000 New York, New Haven & Hartford R. R. 4's of 1956,	20,000.00	800.00
4,000 Oregon Short Line R. R. 4's of 1929,	4,000.00	160.00
20,000 Pennsylvania R. R. 4½'s of 1965,	20,000.00	900.00
2,000 Western Union Tel. Co. 4½'s of 1950,	2,000.00	90.00
Calvin and Lucy Ellis (part),		
\$40,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. collateral) of 1921,	Sold during yr.	1,600.00
40,000 Northern Pacific-Great Northern Joint 6½'s of 1936,	38,600.00	325.00
Real Estate, Wigglesworth St. and Power House, Vila St., Boston (part),	349,052.32	19,748.27
Flattery Research Fund,		
800 shares Loews Incorporated,	1,000.00	1,600.00
625 " Old Colony Woolen Mills, preferred,	5,437.50	437.52
100 " U. S. Smelting, Refining & Mining Co., preferred,	4,865.00	350.00
M. Douglas Flattery Prize Fund,		
750 shares Old Colony Woolen Mills Co., p'fd,	7,500.00	525.00
Harvard Medical Alumni Fund,		
\$2,000 U. S. of America 4th Liberty Loan 4½'s,	1,902.80	85.00
George Haven Bequest (part),		
12 shares Barristers Hall Trust,	924.00	60.00
Julia M. Moseley Fund,		
\$15,000 Massachusetts 3½'s of 1939,	13,950.00	525.00
10,000 Massachusetts 3½'s of 1939,	9,300.00	350.00
George C. Shattuck (1853),		
\$25,000 Chicago, Milwaukee & St. Paul R. R. Conv. 4½'s of 1932,	25,000.00	1,125.00
Amounts carried forward,	\$5,589,353.53	\$232,852.33

Principal. Net Income.

Amounts brought forward, \$5,589,353.53 \$232,852.33

Francis Skinner (part),

16 shares Worcester Consolidated Street Ry.,		
1st preferred,	640.64	.....

Charles H. Wilder Fund,

\$3,000 Trustees of the Business R. E. Trust of		
Boston 4's of 1921,	Sold during yr.	180.00

W. J. & Georgiana B. Wright Fund,

127 shares American Agricultural Chem. Co., . .	10,258.50	462.00
127 " American Locomotive Co., preferred, ..	12,800.00	714.00
127 " American Smelting Refining & Mining Co.,		
preferred,	10,230.00	539.00
127 " American Tobacco Co., preferred, . . .	11,135.50	421.50
50 " Bethlehem Steel Co., preferred,	5,012.50	200.00
27 " Central Leather Co., preferred,	2,700.00	94.50
127 " Corn Products Refining Co., preferred, .	12,869.50	539.00
100 " General Motors Corp., 6% Deb.,	6,262.50	300.00
27 " Goodyear Tire & Rubber Co., preferred, .	2,295.00	47.25
133 " International Nickel Co., preferred, . .	10,464.88	480.00
10 " Manati Sugar Co.,	800.00	35.00
127 " Standard Oil Co. of N. J., preferred, . .	13,231.75	444.50
100 " United States Rubber Co., preferred, . .	10,100.00	400.00

Morrill Wyman Medical Research Fund (part),

\$200 Colonial Club 5's of 1922,	140.00	10.00
10 shares Delaware & Hudson Co.,	1,500.00	90.00
58 " Fitchburg R. R. Co., preferred,	4,176.00	.....
36 " Illinois Central R. R. Co.,	3,888.00	252.00
22 " Maine Central R. R. Co.,	2,200.00	66.00
1 share Old Colony R. R. Co.,	133.00	7.00
16 shares Pennsylvania R. R. Co.,	928.00	44.00

Division of Industrial Hygiene,

\$10,000 American Agricultural Chemical Co. 5's of		
1924,	10,000.00	500.00
20,000 Illinois Steel Co. Deb. 4½'s of 1940, . . .	20,000.00	900.00
100 shares W. H. McIlwain Co., 1st preferred,	9,000.00	700.00
100 " Union Pacific R. R.,	12,000.00	1,000.00

DENTAL SCHOOL

Maria Antoinette Evans Fund,

73 shares Alaska Building Trust,	7,300.00	401.50
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MUSEUM OF COMPARATIVE ZOOLOGY

Alexander Agassiz Bequest, Clause XI,

Real Estate in Cambridge,	40,000.00
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Amounts carried forward, \$5,809,419.30 \$241,679.58

OBSERVATORY

	Principal.	Net Income.
Amounts brought forward,	\$5,809,419.30	\$241,679.58
Advancement of Astronomical Science (1902),		
15 shares Calumet & Hecla Mining Co.,	9,000.00	.....
1 " Boston Real Estate Trust, . . . . .	.....	10.00

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY
AND ETHNOLOGY

Peabody Building (part),	} \$54,000 Kansas & Mis- souri R. R. 1st M. 5's of 1922,	{ 11,512.72	622.32
Peabody Collection (part),			
Peabody Professor (part),			
Thaw (part) (\$8.83 deducted from income for sinking premium),			
\$20,000 Girard Point Storage Co. 1st M. 3½'s of 1940,		20,158.92	691.17

ARNOLD ARBORETUM

Arnold Arboretum Endowment.

\$2000 U. S. A. 4th Liberty Loan 4¼'s,	1,898.40	85.00
4 shares E. I. duPont de Nemours & Co., common,	1,119.04	32.00
Robert Charles Billings,		
\$5,000 Butte Water Co. 1st M. 5's of 1921,	4,000.00	250.00
Maria Antoinette Evans Fund.		
73 shares Alaska Building Trust,	7,300.00	401.50
Bayard & Ruth S. Thayer Fund,		
\$5,000 U. S. of America 3½'s 1st Liberty Loan, . .	5,000.00	175.00

BUSSEY INSTITUTION

Woodland Hill,

Laboratory of Comparative Pathology building, .	20,658.86	1,000.00
Mrs. William H. Bliss Fund,		
\$50,000 New York & New Jersey 5's of 1932, . .	50,000.00	2,500.00

SPECIAL FUNDS

Anonymous,

\$20,000 Massachusetts 3's of 1930,	20,000.00	600.00
19,000 " " 1941,	19,000.00	570.00
189 shares Edison Electric Illum. Co. of Boston, .	52,451.98	2,268.00

Anonymous Fund No. 2,

52 shares Massachusetts Gas Co.,	4,758.00	364.00
76 " Puget Sound Traction, Light, & Power Co., preferred,	7,600.00	228.00
100 " Puget Sound Traction, Light, & Power Co., common,	5,200.00	.....
34 " United Fruit Co.,	2,686.00	238.00

Bussey Trust (part),

Real Estate in Boston,	365,978.05	18,215.73
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Amounts carried forward, \$6,456,178.55 \$272,007.98

Principal. Net Income.

Amounts brought forward, \$6,456,178.55 \$272,007.98

Fund of the Class of 1834,

Policy of Mass. Hospital Life Insurance Co., . . . 1,000.00 47.50

Fund of the Class of 1844,

Policy of Mass. Hospital Life Insurance Co., . . . 6,500.00 308.75

Fund of the Class of 1853,

Policy of Mass. Hospital Life Insurance Co., . . . 3,725.00 176.94

Fund of the Class of 1857,

\$5,000 Kansas City, Fort Scott & Memphis 6's of 1928, 5,000.00 300.00

Freshman Halls,

Real Estate in Cambridge, 99,672.60

Francis Lee Higginson,

\$10,000 Consolidation Coal Co. 5's of 1950, . . . 10,000.00 500.00

10,000 Cudahy Packing Co., 5's of 1946, 10,000.00 500.00

10,000 Galveston, Harrisburg & San Antonio 6's
of 1931, 10,000.00 500.00

10,000 Interborough Rapid Transit 5's of 1966, . 10,000.00 500.00

50,000 Kansas City, Memphis & B'ham 5's of 1934, 40,000.00 2,500.00

Price Greenleaf. (\$288.32 deducted from income
for sinking premiums.) The total amount of this
Fund is \$790,565.48, of which \$789,605.48 is in-
vested as follows:

\$70,000 Broadway Realty Co. Purchase money

1st M. 5's of 1926, 70,852.00 3,289.00

43,500 Central Vermont R'y Ref. Mtg. 5's of 1930, 37,845.00 2,175.00

50,000 Chicago Junction Railways & Union Stock
Yards Coll. Trust 5's of 1940, 49,375.00 2,500.00

20,000 Cleveland R'y Ref. M. 5's of 1931, . . . 20,000.00 1,000.00

61,000 Colorado Power Co. 5's of 1953, 52,960.00 3,050.00

30,000 Commonwealth Power Co. 1st M. 5's of 1924, 29,850.00 1,500.00

35,000 Galveston Electric Co. 1st M. 5's of 1940, 32,900.00 1,750.00

55,000 Great Lakes Power Co. 1st M. 6's of 1932, 52,250.00 3,300.00

3,000 Great Lakes Power Co. 6's of 1940, . . . 2,700.00 180.00

8,000 Kansas City, Fort Scott & Memphis Cons.
M. 6's of 1928, 8,463.95 402.68

50,000 New England Tel. & Tel. Co. 5's of 1932, 50,000.00 2,500.00

34,000 New York Central & Hudson River R. R.
(Michigan Central Collateral) 3½'s of 1998, 28,412.10 1,190.00

3,000 New York Railways Co. 1st R. E. & Ref.
M. 4's of 1942, 2,373.94

18,000 New York Railways Co. Adj. M. 5's of 1942, 9,453.39

32,000 Northern Pacific-Great Northern Joint 4's
(C. B. & Q. collateral) of 1921, . . . Sold during yr. 1,280.00

32,000 Northern Pacific-Great Northern Joint 6½'s
of 1936 (C. B. & Q. Collateral), 29,920.00 260.00

50,000 Union Pacific R.R. 1st M. & L.G. 4's of 1947, 44,625.00 2,000.00

360 shares Boston & Lowell R. R., 35,913.55

Amounts carried forward, \$7,209,970.08 \$303,717.85

		Principal.	Net Income.
Amounts brought forward,		\$7,209,970.08	\$303,717.85
Price Greenleaf (<i>continued</i>).			
237 shares	Fitchburg R. R., preferred,	22,306.27	.....
61 "	Great Northern, preferred,	13,445.31	427.00
40 "	Great Northern Iron Ore Properties, . . . . .	.....	160.00
355 "	Old Colony R. R.,	63,190.00	2,485.00
13 "	N. Y. Central & Hudson River R. R.,	1,380.00	65.00
290 "	Northern R. R. (N. H.),	29,290.00	1,740.00
52 "	West End Street Railway, preferred,	4,305.56	208.00
34 "	Central Vermont R'y,	428.72	.....
855 "	Pennsylvania R. R.,	59,256.04	2,351.25
21 "	Boston Real Estate Trust,	27,483.25	840.00
100 "	Paddock Building Trust,	10,000.00	462.50
	Cash in American Trust Co.,	626.40	.....
Charles L. Hancock Bequest (part),			
	Real Estate in Chicago,	65,000.00	5,086.23
Gordon McKay Endowment (part),			
\$120,000	American Tel. & Tel. 4's of 1929,	114,000.00	4,800.00
15,000	General Electric Co. 3 yr. 6% Gold Notes of 1920,	Sold during yr.	450.00
100,000	Kanawha & Michigan 5's of 1927,	95,500.00	5,000.00
12,200	Kansas City Light & Power Co. 6's of 1944,	12,213.00	732.00
22,700	Kansas City Railways Co. 6's of 1944,	22,713.00	.....
80,000	New York, N. H. & H. Deb. 4's of 1955,	78,800.00	3,200.00
12,000	Puget Sound Electric 5's of 1932,	11,760.00	600.00
860 shares	American Tel. & Tel. Co.,	Sold during yr.	6,880.00
300 "	Great Northern,	42,713.37	2,100.00
240 "	Northern Pacific,	35,400.00	1,680.00
165 "	Pennsylvania,	10,800.75	453.75
Robert Troup Paine (accumulating),			
\$8,000	Massachusetts 3½'s of 1928,	7,596.00	280.00
38,000	" " 1935,	36,951.78	1,330.00
2,000	" " 1936,	1,885.00	70.00
31,000	" " 1938,	29,612.28	1,085.00
Flavius Searle Memorial,			
3 shares	Ahmeek Mining Co.,	150.00	.....
40 "	American Pneumatic Service Co., common,	120.00	.....
30 "	American Pneumatic Service Co., preferred,	360.00	.....
45 "	Anaconda Copper Mining Co.,	1,755.00	.....
12 "	American Tel. & Tel. Co.,	Sold during yr.	24.00
10 "	Copper Range Co.,	350.00	.....
70 "	Franklin Mining Co.,	1.00	.....
20 "	Isle Royal Copper Range,	400.00	.....
40 "	U. S. Smelting, Refining & Mining Co., preferred,	1,720.00	35.00
Amounts carried forward,		\$8,011,482.81	\$346,262.58

	Principal.	Net Income.
Amounts brought forward,	\$8,011,482.81	\$346,262.58
Flavius Searle Memorial (<i>continued</i>).		
20 shares Utah Consolidated Mining Co., . .	80.00	.....
12 " Western Union Tel. Co.,	1,032.00	21.00
Frederick Sheldon (part),		
52 shares All America Cables Co., Inc., . .	3,876.29	364.00
\$6,500 Mortgage Note,	6,500.00	425.88
100/15000th Trust Estate Hastings & Dak. Ry. Co.,	200.00	75.00
George Smith Bequest (part),		
\$10,000 Duquoin, Ill., Water Works Co. 6's of		
1901,	1.00	.....
Harvard Union,		
\$3,000 American Tel. & Tel. Co. 4's of 1929, . .	2,220.00	120.00
3,000 Cleveland Terminal & Valley R. R. 4's of		
1995,	1,860.00	120.00
2,000 Current River R. R. 5's of 1927,	1,640.00	100.00
3,000 Kansas City, Fort Scott & Memphis R. R.		
4's of 1836,	1,800.00	120.00
2,000 Kansas City, Memphis & B'ham R. R. 4's of		
1934,	1,200.00	80.00
1,000 Norfolk & Western R. R. 4's of 1944, . .	700.00	40.00
5,000 Northern Pacific R. R. 3's of 2047, . . .	2,500.00	187.50
2,000 St. Louis, Iron Mountain & Southern R. R.		
4's of 1929,	1,320.00	80.00
5,000 Seattle Electric Co. 5's of of 1930, . . .	4,000.00	250.00
3,000 U. S. A. 4th Liberty Loan 4½'s,	2,559.00	127.50
700 U. S. A. 5th Victory Loan 4½'s,	668.64	49.85
3,000 U. S. Steel Corporation 5's of 1963, . . .	2,670.00	150.00
28,440.27 Varsity Club 5% Loan,	28,440.27	1,422.00
Harvard Union—Class of 1878,		
1,000 American Tel. & Tel. Co. 4's of 1929, . .	740.00	40.00
500 Baltimore & Ohio R. R. 4's of 1948, . . .	292.50	20.00
500 Dominion Coal Co. 5's of 1940,	410.00	25.00
500 Kansas City, Memphis & B'ham R. R. 4's		
of 1934,	300.00	20.00
2,000 Norfolk & Western R. R. 4's of 1944, . .	1,400.00	80.00
5,000 Northern Pacific-Great Northern Joint 4's		
of 1921,	Sold during yr.	200.00
1,000 Seattle Electric Co. 5's of 1930,	800.00	50.00
1,500 U. S. A. 4th Liberty Loan 4½'s of 1938, .	1,279.50	63.74
200 U. S. A. 5th Victory Loan 4½'s of 1923, .	191.04	14.24
Harvard Union—Simes Fund,		
\$2,000 Lake Shore & Michigan Southern R. R. 4's		
of 1931,	1,520.00	80.00
500 Savannah Electric Co. 5's of 1952,	150.00	25.00
2,000 St. Louis, Iron Mountains & Southern R. R.		
4's of 1929,	1,320.00	80.00
Amounts carried forward,	\$8,083,153.05	\$350,693.29

SPECIAL INVESTMENTS

	Principal.	Net Income.
Amounts brought forward,	\$8,083,153.05	\$350,693.29
Harvard Union — Simes Fund (<i>continued</i>)		
\$500 U. S. A. 4th Liberty Loan 4 $\frac{1}{4}$'s,	426.50	21.26
100 U. S. A. 5th Victory Loan 4 $\frac{3}{4}$'s,	95.52	7.13
	<u>\$8,083,675.07</u>	<u>\$350,721.68</u>

SUMMARY:

Cash, Exhibit A,	\$626.40
Securities, Exhibit A,	5,800,188.54
Land and Buildings, Exhibit A,	2,282,860.13
Interest and Dividends, Exhibit B,	\$283,396.76
Rents, Land and Buildings, Exhibit B,	67,324.92
	<u>\$8,083,675.07</u>
	<u>\$350,721.68</u>

SCHEDULE 2

SECURITIES—GENERAL INVESTMENTS

June 30, 1921

Mortgages and Other Loans.	Principal.	Income.
Mortgages,	\$413,500.00	
Advances to Bussey Trust,	297,499.08	
American Printing Co.,	50,000.00	
American Woolen Co.,	100,000.00	
Arlington Mills,	150,000.00	
Armour & Co.,	250,000.00	
Boston Woven Hose & Rubber Co.,	200,000.00	
Columbus Manufacturing Co.,	100,000.00	
Dixie Cotton Mills,	25,000.00	
Equinox Mill,	80,000.00	
Fall River Electric Light Co.,	100,000.00	
Hamilton Manufacturing Co.,	50,000.00	
Hamilton Woolen Co.,	100,000.00	
International Cotton Mills,	100,000.00	
Loews Theatres Co.,	110,000.00	
Massachusetts Cotton Mills,	50,000.00	
Merrimack Manufacturing Co.,	300,000.00	
Nashua Manufacturing Co.,	100,000.00	
Pacific Mills,	150,000.00	
Plymouth Cordage Co.,	100,000.00	
Saco-Lowell Shops,	50,000.00	
Sanford Mills,	200,000.00	
Sherman Manufacturing Co.,	30,000.00	
United States Worsted Co.,	25,000.00	
Waltham Watch Co.,	75,000.00	
Warwick Mills,	180,000.00	
Western Electric Co.,	100,000.00	
West Point Manufacturing Co.,	150,000.00	
	<u>\$3,635,999.08</u>	<u>\$271,327.77</u>
Public Funds.		
\$4,000 Dominion of Canada 5's of 1926, . . .	\$3,650.00	\$100.00
100,000 Government of Switzerland Gold 5½'s of 1929,	96,250.00	5,500.00
100,000 Great Britain & Ireland 5½'s of 1921, . .	98,500.00	5,500.00
200,000 Great Britain & Ireland 5½'s of 1929, . .	192,500.00	11,000.00
30,000 U. S. A. 1st Liberty Loan 3½'s,	29,988.00	1,050.00
5,000 U. S. A. 2d Liberty Loan 4's,	4,627.00	340.82
43,000 U. S. A. 2d Liberty Loan 4¼'s,	42,945.00	1,827.50
500,000 U. S. A. 4th Liberty Loan 4¼'s,	428,500.00	16,822.90
150,000 U. S. Treasury 4½% Certificates, . . .	Sold during yr.	1,161.88
250,000 U. S. Treasury 5¾% Certificates, . . .	Sold during yr.	2,144.34
94,000 United States of Mexico 4's of 1954, . .	87,250.00	.....
	<u>\$984,210.00</u>	<u>\$45,447.44</u>

GENERAL INVESTMENTS

	Principal.	Income.
Railroad Bonds.		
\$100,000 Baltimore & Ohio 1st M. 4's of 1948, . .	\$96,625.00	\$4,000.00
21,000 Baltimore & Ohio Conv. 4½'s of 1933, .	20,058.30	945.00
100,000 B. & O. (S. W. Div.) 1st M. 3½'s of 1925,	89,750.00	3,500.00
100,000 Baltimore & Ohio (Pittsburg, Lake Erie & West Virginia) Ref. M. 4's of 1941,	99,250.00	4,000.00
125,000 Bangor & Aroostook Cons. Ref. M. 4's of 1951,	118,750.00	5,000.00
100,000 Boston & Albany, Ref. M. 5's of 1963,	101,951.20	4,952.40
200,000 Canadian National R'ys-Grand Trunk R'y S. F. 7's of 1940,	199,500.00	6,183.34
200,000 Canadian Northern R'y 7's of 1940, . .	199,500.00	6,591.67
100,000 Canadian Northern R'y Equip. 6's of June, 1921,	Sold during yr.	6,000.00
100,000 Canadian Northern R'y Equip. 6's of Dec., 1921,	98,895.22	3,000.00
544,000 Chicago, Burl. & Quincy 3½'s of 1949, . .	536,570.49	19,040.00
150,000 " " Gen. M. 4's of 1958,	145,250.00	6,000.00
40,400 Chicago, Milwaukee & St. Paul Conv. 4½'s of 1932,	40,421.64	1,815.82
23,900 Chicago, Milwaukee & St. Paul Conv. 5's of 2014,	23,900.00	1,195.00
100,000 Chicago & No. Western Gen. M. 3½'s of 1987,	100,780.50	3,487.90
50,000 Chicago & Western Indiana 7's of 1929,	Sold during yr.	1,944.40
25,000 Chicago & Western Indiana 7½'s of 1935,	24,375.00	937.50
100,000 Chicago, Rock Island & Pacific Gen. M. 4's of 1988,	105,256.84	3,920.36
184,000 Duluth, Missabe & Northern General M. 5's of 1941,	192,620.60	8,746.30
100,000 Galveston, Harrisburg & San Antonio, Mex. & Pac. Ext. 5's,	99,250.00	5,000.00
100,000 Hocking Valley R. R., 6's of 1924, . . .	98,250.00	6,000.00
100,000 Illinois Central R'y and Chicago, St. Louis, & New Orleans R'y Joint 1st Ref. M. 5's of 1963,	98,750.00	5,000.00
100,000 Indiana, Ill. & Iowa 1st M. 4's of 1950,	96,500.00	4,000.00
100,000 Indianapolis Union R'y Gen. & Ref. M. 5's of 1965,	99,250.00	5,000.00
225,000 Kansas City, Fort Scott & Memphis Cons. M. 6's of 1928,	238,875.85	11,187.36
134,000 Kansas City, Memphis & Birmingham (assented) Income 5's of 1934, . . .	120,300.00	6,700.00
364,000 Kansas City Terminal R'y 1st M. Gold 4's of 1960,	298,975.00	14,560.00
100,000 Lake Shore & Michigan Southern Deb. 4's of 1931,	93,250.00	4,000.00
300,000 Long Island Unified M. 4's of 1949, . .	283,257.50	12,000.00

Amounts carried forward, \$3,720,113.14 \$164,707.05

Principal. Income.
 Amounts brought forward, . . . \$3,720,113.14 \$164,707.05

Railroad Bonds (*continued*).

200,000 Louisville & Jeffersonville Bridge Co. 1st M. 4's of 1945,	191,000.00	8,000.00
100,000 Minneapolis Union 1st M. 5's of 1922, .	100,000.00	4,844.66
100,000 Montana Central 1st M. 6's of 1937, . .	117,924.00	4,805.00
150,000 Mount Royal Tunnel & Terminal Co. 1st 5's of 1970,	101,250.00	3,201.12
100,000 New Orleans, Texas & Mexico 6's of 1925,	99,000.00	6,000.00
133,000 New York Central Conv. Deb. 6's of 1935,	130,600.00	7,980.00
300,000 New York Central 4's of 1998,	294,464.40	12,000.00
100,000 New York, Lake Erie, & Western Docks & Improvement Co. 1st M. 5's of 1943, .	100,000.00	5,000.00
25,000 New York, New Haven & Hartford Con- vertible Deb. 6's of 1948,	25,000.00	1,500.00
100,000 New York, New Haven & Hartford Deb. 4's of 1955,	104,231.00	3,872.00
200,000 New York, Ontario & Western Ref. M. 4's of 1992,	208,217.35	7,882.60
100,000 New York, Westchester & Boston R'y 1st M. 4½'s of 1946,	96,250.00	4,500.00
470,000 Northern Pacific—Great Northern Joint 4's (C. B. & Q. Coll.) of 1921, . . .	Sold during yr.	18,800.00
503,000 Northern Pacific—Great Northern Joint 6½'s of 1936,	485,395.00	4,086.87
100,000 Oregon Short Line Cons. 1st M. 5's of 1946,	110,340.73	4,569.14
100,000 Oregon Short Line Ref. M. 4's of 1929,	96,875.00	4,000.00
300,000 Pennsylvania R. R. Cons. Mtg. 4½'s of 1960,	274,623.75	13,500.00
250,000 Pennsylvania R. R. 7's of 1930,	249,625.00	15,691.67
320,000 Pennsylvania R. R. 15 yr. 6½'s of 1936,	316,800.00	.....
300,000 Pere Marquette R. R. 1st 5's of 1956, .	261,405.00	14,521.24
250,000 Richmond—Washington Co. Coll. Trust 4's of 1943, Series C,	253,614.20	9,827.90
150,000 St. Louis & San Francisco P. L. 4's of 1950,	122,650.00	6,000.00
25,000 St. Louis & San Francisco Cum. Adj. 6's of 1955,	24,281.25	1,500.00
£40,000 St. Paul, Minneapolis & Manitoba (Pa- cific Extension) 4's of 1940,	198,095.28	7,526.64
\$100,000 Southern Pacific 1st Ref. M. 4's of 1955,	97,062.50	4,000.00
100,000 Southern Pacific Co. Conv. 4's of 1929,	99,625.00	4,000.00
400,000 Terminal R. R. Association of St. Louis Gen. M. Ref. 4's of 1953,	358,000.00	16,000.00
200,000 Union Pacific 1st M. & L. G. 4's of 1947,	177,114.75	8,000.00
100,000 " " Conv. 4's of 1927,	95,392.50	4,000.00
	<u>\$8,508,949.85</u>	<u>\$370,315.89</u>

GENERAL INVESTMENTS

	Principal.	Income.
Traction Bonds.		
\$100,000 Boston Elevated R'y 5's of 1942, . . .	\$100,000.00	\$5,000.00
200,000 Chicago Railways 1st M. 5's of 1927, .	198,166.70	10,000.00
100,000 Cleveland Railways Ref. M. 5's of 1931,	100,000.00	5,000.00
300,000 Eastern Massachusetts Street R'y 4½'s	270,500.00	.....
of 1948,		
15,000 Eastern Massachusetts Street R'y 6's		
of 1925,		
100,000 Georgia Railway & Power Co. 5's of	92,500.00	5,000.00
1954,		
300,000 Interborough-Metropolitan Coll. Trust	254,782.50	.....
4½'s of 1956,		
200,000 Interborough Rapid Transit Co. 5's of	197,000.00	10,000.00
1966,		
100,000 Metrop. West Side Elevated 4's of 1938,	91,746.25	4,000.00
100,000 " " " Ext. M. 4's	97,000.00	4,000.00
of 1938,		
150,000 Montreal Tramways Co. 1st M. Ref. 5's	149,625.00	7,500.00
of 1941,		
71,000 New York Railways Co. Adj. M. 5's of	37,314.09	.....
1942,		
16,000 New York Railways Co. 1st R. E. & Ref.	12,537.67	.....
M. 4's of 1942,		
100,000 Northern Texas Traction Co. 1st M. 5's	100,000.00	5,000.00
of 1933,		
100,000 Nova Scotia Tramways & Power Co.	94,500.00	5,000.00
5's of 1946,		
100,000 Second Ave. (N.Y.) Con. M. 5's of 1948,	102,717.00	.....
1,000 Springfield Railway & Light Co. S. F.	1,000.00	50.00
5's of 1926,		
21,000 Third Avenue R'y 1st Ref. M. 4's of	17,220.50	840.00
1960,		
55,500 Third Avenue R'y Adj. Inc. 5's of 1960,	40,489.42	.....
50,000 Toronto Railway 6% Notes of 1920, . .	Sold during yr.	1,500.00
	<u>\$1,957,099.13</u>	<u>\$62,890.00</u>
Sundry Bonds.		
\$100,000 Adirondack Electric Power Co. 5's of	\$98,000.00	\$5,000.00
1962,		
100,000 Adirondack Power & Light Corp. 6's of	84,500.00	2,333.33
1950,		
100,000 Alabama Power Co. 5's of 1946, . . .	95,000.00	5,000.00
200,000 American Agricultural Chemical Co. 5's	Sold during yr.	10,000.00
of 1924,		
300,000 American Agricultural Chemical Co.	279,000.00	.....
7½'s of 1941,		
100,000 American Gas & Electric Co. 6% Notes	Sold during yr.	3,000.00
of Dec. 1, 1920,		
Amounts carried forward,	\$556,500.00	\$25,333.33

	Principal.	Income.
Amounts brought forward,	\$556,500.00	\$25,333.33
Sundry Bonds (continued).		
200,000 American Smelting & Refining Co. 1st 5's of 1947,	196,000.00	10,000.00
100,000 American Tel. & Tel. Co. 4's of 1929, .	101,143.35	3,836.67
120,000 American Tel. & Tel. Co. 5's of 1946, .	117,600.00	6,000.00
49,600 American Tel. & Tel. Co. Conv. 6's of 1925,	46,624.00	2,976.00
250,000 Anaconda Copper Co. 6's of 1929, . . .	246,212.50	15,000.00
40,000 Appalachian Power Co. 1st 5's of 1941,	28,000.00	2,000.00
100,000 Bell Telephone Co. of Canada 5's of 1925,	100,300.00	4,337.50
200,000 Bell Telephone Co. of Penna. 7's of 1945,	Sold during yr.	3,111.11
100,000 Bird & Son Inc. 6's of 1929,	98,500.00	6,000.00
250,000 Boston Consolidated Gas Co. 7½% Notes of 1922,	248,750.00	.....
145,000 Broadway Realty Co. Purchase money 1st M. 5's of 1926,	147,225.22	6,693.70
100,000 Chicago Junction Railways and Union Stock Yards 5's of 1940,	98,500.00	5,000.00
100,000 Chicago Junction Railways and Union Stock Yards 4's of 1940,	98,750.00	4,000.00
100,000 Chicago Telephone Co. 5's of 1923, . .	100,237.78	4,762.13
75,000 Chicago Union Station 4½'s of 1963, . .	75,000.00	3,375.00
100,000 Cincinnati Gas and Electric 5's of 1956,	99,560.00	5,000.00
107,000 City of Victoria, B. C., Deb. 4½'s of 1923,	100,770.00	4,815.00
100,000 Cleveland Electric Ill. Co. 1st 5's of 1939,	91,500.00	5,000.00
50,000 Columbus Electric Co. 6% Notes of 1922,	48,625.00	3,000.00
100,000 Columbus Power Co. 1st 5's of 1936, .	88,830.00	5,000.00
100,000 Commonwealth Edison Co. 1st M. 5's of 1943,	100,000.00	5,000.00
150,000 Connecticut Light & Power Co. 1st 7's of 1951,	141,750.00	.....
100,000 Consolidated Gas, Electric Light & Power Co. 7's of 1922,	100,000.00	7,000.00
50,000 Continental Motors Corp. 7's of 1922, .	49,875.00	3,354.17
99,000 Crane Company 5½'s of 1944,	98,970.00	5,445.00
200,000 Duquesne Light Co. 6's of 1949, . . .	199,000.00	12,000.00
100,000 Edison Electric Ill. Co. 6's of Feb., 1922,	99,500.00	6,000.00
100,000 Edison Electric Ill. Co. 7's of Aug., 1922,	99,625.00	7,000.00
62,000 Edison Electric Ill. Co. 5's of 1922, . .	57,970.00	3,100.00
50,000 Electric Securities Corporation 5's of 1940, 9th series,	50,000.00	2,500.00
50,000 Electric Securities Corporation 5's of 1942, 11th series,	50,000.00	2,500.00
62,000 Electric Securities Corporation 5's of 1946, 14th series,	61,410.00	3,100.00
Amounts carried forward,	\$3,796,727.85	\$182,239.61

GENERAL INVESTMENTS

	Principal.	Income.
Amounts brought forward,	\$3,796,727.85	\$182,239.61
Sundry Bonds (<i>continued</i>).		
10,000 General Electric Co. 6% Notes of 1920, Sold during yr.		300.00
100,000 General Electric Co. Deb. 5's of 1952,	99,750.00	5,000.00
50,000 Great Lakes Power Co. Ltd. 6's of 1941,	43,375.00	1,411.11
150,000 Great Lakes Power Co. Ltd. 6's of 1942,	129,750.00	4,322.22
200,000 Great Western Power Co. 5's of 1946,	177,500.00	10,000.00
200,000 Havana Dock Corporation 7's of 1937,	191,000.00	622.23
100,000 Homestead Corp. 6's of 1922,	99,200.00	6,000.00
300,000 Illinois Steel Co. Deb. 4½'s of 1940, . .	284,250.00	13,500.00
100,000 International Cotton Mills Co. 7's of 1929,	98,500.00	7,000.00
100,000 Laclede Gas Light Co. 7's of 1929, . .	99,750.00	7,000.00
100,000 Laurentide Power Co. Ltd. 5's of 1946,	84,000.00	5,000.00
100,000 Liggett & Myers Tobacco Co. 6's of 1921,	99,812.50	6,000.00
100,000 Mahoning & Shenango Railway and Light Co. 5's of 1920,	Sold during yr.	2,500.00
50,000 Massachusetts Gas Co.'s S. F. 4½'s of 1929,	48,375.00	2,250.00
500,000 Massachusetts Gas Co.'s 4½'s of 1931, .	423,250.00	22,500.00
100,000 Michigan State Telephone Co. 5's of 1924,	100,000.00	5,000.00
300,000 Midvale Steel & Ordnance Co. 5's of 1936,	295,751.25	15,000.00
100,000 Minneapolis General Electric Co. Gen. M. 5's of 1934,	101,101.80	4,908.21
300,000 Mississippi River Power Co. 1st 5's of 1951,	223,655.00	10,219.03
155,400 Montana Power Co. 5's of 1943,	141,066.00	7,770.00
100,000 Municipal Gas & Electric Co. of Roches- ter, N. Y., 1st M. 4½'s of 1942,	100,000.00	4,500.00
100,000 National Tube Co. 5's of 1952,	99,750.00	5,000.00
100,000 New Bedford Gas & Edison Light Co. 1st 6's of 1928,	100,000.00	6,000.00
25,000 New England Fuel and Transportation Co. 6% Notes of 1920,	Sold during yr.	750.00
79,000 New England Power Co. 1st 5's of 1951,	75,840.00	3,950.00
175,000 Northern States Power Co. 5's of 1941,	161,000.00	8,750.00
250,000 Northwestern Bell Telephone Co. 7's of 1941,	241,250.00	583.33
100,000 Oklahoma Gas & Electric Co. 7% Notes of 1921,	Sold during yr.	6,474.99
100,000 Oklahoma Gas & Electric Co. 7½'s of 1941,	93,250.00	.....
100,000 Pacific Coast Power 5's of 1940,	96,000.00	5,000.00
100,000 Pacific Fruit Express 7's of 1931-1935,	100,500.00	6,961.11
100,000 Packard Motor Car Co. 10 yr. 8's of 1931,	99,750.00	.....
45,000 Pejepscot Paper Co. 1st M. 5's of 1921, Sold during yr.		2,250.00
100,000 Pennsylvania Water & Power Co. 5's of 1940,	86,000.00	5,000.00
121,000 Portland Gen'l Elec. 1st M. 5's of 1935,	121,400.32	6,019.16
Amounts carried forward,	\$7,911,554.72	\$379,781.00

	Principal.	Income.
Amounts brought forward, . . .	\$7,911,554.72	\$379,781.00

Sundry Bonds (*continued*).

100,000 Portland R'y Light & Power Co. 1st M. 5's of 1942,	95,500.00	5,000.00
100,000 Public Service Co. of New Jersey 7's of 1922,	97,085.08	7,000.00
150,000 Puget Sound Traction, Light & Power Co. 7's of 1921,	Sold during yr.	10,500.00
200,000 Quincy Electric Light & Power Co. 7's of 1931,	200,000.00	.....
100,000 Railway & Light Securities Co. Coll. Trust 5's of 1939, 2d series,	100,000.00	5,000.00
100,000 Railway & Light Securities Co. Coll. Trust 5's of 1939, 3d series,	98,000.00	5,000.00
100,000 Railway & Light Securities Co. Coll. Trust 5's of 1944, 5th series,	94,250.00	5,000.00
200,000 Two Rector Street Corp. 1st S. F. 6's of 1935,	184,000.00	4,166.68
200,000 San Francisco Gas & Electric Co. 4½'s of 1933,	187,000.00	9,000.00
58,000 Seattle Electric Co. 5's of 1930, . . .	58,357.00	2,855.47
196,000 Seattle Electric — Seattle Everett 5's of 1939,	181,967.50	9,800.00
50,000 A. O. Smith Corp. 6's of 1924,	48,625.00	3,000.00
100,000 Southern Bell Telephone Co. 5's of 1941,	99,000.00	5,000.00
200,000 Southern Power Co. 1st M. 5's of 1930,	197,500.00	10,000.00
191,000 St. Louis National Stock Yards Co. 1st M. 4's of 1930,	184,465.00	7,640.00
375,000 Standard Oil Co. of California Deb. 7's of 1931,	374,375.00	.....
355,000 Standard Oil Co. of New York Deb. 7's of 1931,	354,390.00	.....
150,000 Swift & Co. 6% Notes of 1921,	148,062.50	4,408.34
100,000 Tacoma Railway & Power Co. 1st M. 5's of 1929,	100,474.00	4,932.50
300,000 Toronto Harbor Commissioners 4½'s of 1953,	228,500.00	6,572.50
200,000 Trinity Bldgs. Corp. 1st S. F. 5½'s of 1939,	195,000.00	11,000.00
50,000 United Electric Securities Co. Coll. Trust 5's of 1936, 24th series, . . .	50,000.00	2,500.00
10,000 United Electric Securities Co. Coll. Trust 5's of 1937, 26th series, . . .	10,000.00	500.00
25,000 United Electric Securities Co. Coll. Trust 5's of 1940, 32d series,	25,160.68	1,241.06
100,000 United Electric Securities Co. Coll. Trust 5's of 1942, 36th series,	100,000.00	5,000.00

Amounts carried forward, . . .	\$11,323,266.48	\$504,897.55
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GENERAL INVESTMENTS

	Principal.	Income.
Amounts brought forward, . . .	\$11,323,266.48	\$504,897.55
Sundry Bonds (continued).		
100,000 United Electric Securities Co. Coll.		
Trust 5's of 1942, 37th series, . . .	99,500.00	5,000.00
23,000 United Electric Securities Co. Coll.		
Trust 5's of 1943, 38th Series, . . .	22,770.00	1,150.00
100,000 United Electric Securities Co. Coll.		
Trust 5's of 1944, 39th series,	98,750.00	5,000.00
506,000 United States Rubber Co. 5's of 1947, .	442,152.50	25,150.00
50,000 U. S. Smelting, Refining & Mining Co.		
6's of 1926,	50,777.65	2,805.55
100,000 United Traction & Electric Co. 1st M. 5's		
of 1933,	106,004.50	.....
50,000 Waltham Watch Co. 6's of 1924, . . .	49,500.00	3,000.00
200,000 Washington Water Power Co. 7 % Notes		
of 1922,	196,332.15	14,000.00
200,000 Washington Water Power Co. 5's of 1939,	200,236.00	9,986.00
100,000 Western Elec. Co. 1st M. 5's of 1922, .	99,500.00	5,000.00
	<u>\$12,688,789.28</u>	<u>\$575,989.10</u>

Railroad Stocks.

812 shares Baltimore & Ohio,	\$79,329.17	.....
60 " Baltimore & Ohio, preferred, . . .	4,500.00	\$240.00
507 " Chicago, Milwaukee & St. Paul, pfd.,	50,670.58	.....
1268 " Chicago, Milwaukee & St. Paul, . .	177,425.94	.....
2510 " Chicago & No. Western,	340,628.99	12,550.00
1653 " Great Northern, preferred,	322,411.96	{ 11,571.00
955 " Great Northern Iron Ore Properties, }		
960 " Louisville & Nashville,	109,924.00	6,720.00
8 " Louisville Property	1.00	.....
700 " Manhattan,	92,762.50	4,900.00
288 " New York Central & Hudson River, .	20,673.21	1,440.00
1000 " Northern Pacific,	115,315.00	7,000.00
7576 " Pennsylvania,	449,932.58	20,834.00
232 " Third Avenue Railway,	5,800.00	.....
500 " Union Pacific,	77,812.50	5,000.00
	<u>\$1,847,187.43</u>	<u>\$74,075.00</u>

Manufacturing and Telephone Stocks.

4000 " American Sugar Refining Co., pfd.,	\$472,000.00	\$28,000.00
20 " American Tel. & Tel. Co.,	1,999.08	29,072.00
2818 " Amoskeag Manufacturing Co., . . .	148,650.20	10,614.00
500 " Corning Glass Works, preferred, .	49,000.00	1,555.56
500 " The Fisk Rubber Co., 1st. preferred,	50,000.00	3,000.00
4189 " General Electric Co.,	266,089.60	23,890.00
500 " Hood Rubber Products Co., preferred,	49,770.00	3,000.00
500 " George B. Keith Co., 1st preferred, .	50,500.00	3,000.00

Amounts carried forward, \$1,088,008.88 \$102,131.56

		Principal.	Income.
Amounts brought forward,		\$1,088,008.88	\$102,131.56
Manufacturing and Telephone Stocks (<i>continued</i>).			
500	" Lancaster Mills, 1st preferred, . . .	50,000.00	3,000.00
187	" Merrimack Manufacturing Co., . . .	18,615.10	1,496.00
500	" Nashua Manufacturing Co., pfd., . .	50,000.00	3,000.00
500	" Northwestern Leather Co., preferred,	50,000.00	3,500.00
1633	" Pacific Mills,	103,902.41	27,761.00
500	" Union Twist Drill Co., preferred, . .	48,500.00	3,000.00
4000	" United States Steel Corp., preferred,	455,487.50	28,000.00
1000	" Western Union Telegraph Co., . . .	62,125.00	7,000.00
		<u>\$1,926,638.89</u>	<u>\$178,888.56</u>

Real Estate Trust Stocks.

1000 shares	Barristers Hall,	\$92,766.00	\$5,000.00
898	" Boston Ground Rent Trust,	79,525.00	4,490.00
100	" Boston Real Estate Trust,	65,000.00	4,000.00
250	" Business Real Estate,	23,750.00	500.00
2105	" Congress Street Associates,	196,130.00	7,367.50
1000	" Essex Street,	100,000.00	4,000.00
850	" Kimball Building,	83,100.00	.....
1090	" Paddock Building,	104,458.72	5,041.25
1000	" Post Office Square Building,	103,000.00	4,250.00
1000	" St. Paul Business Real Estate Assoc.,	100,000.00	5,000.00
848	" Trimountain Trust,	75,158.50	3,816.00
2000	" Western Real Estate Trust,	207,750.00	14,000.00
		<u>\$1,230,638.22</u>	<u>\$57,464.75</u>

Sundry Stocks.

1081 shares	Edison Elec. Illum. Co., Boston,		
	Mass.,	\$212,436.74	\$12,972.00
1500	" Electric Bond & Share Co. preferred,	136,500.00	9,000.00
10,000	" Loews Theatres Co., preferred, . .	585,845.01	63,924.73
2500	" Massachusetts Gas Companies, pfd.,	158,945.92	6,000.00
5000	" Standard Oil Co. of New Jersey, pfd.,	556,262.50	31,641.75
1500	" Turners Falls Power & Electric Co.,	158,200.00	9,000.00
3050	" United Fruit Co.,	266,743.15	18,350.00
1250	" Armour Co., preferred,	125,000.00	7,500.00
20	" Washington Water Power Co., . . .	2,000.00	135.00
		<u>\$2,201,933.32</u>	<u>\$158,523.48</u>

SUMMARY :	Principal.	Income.
Mortgages and Notes,	\$3,635,999.08	\$271,327.77
Public Funds,	984,210.00	45,447.44
Railroad Bonds,	8,508,949.85	370,315.89
Traction Bonds,	1,957,099.13	62,890.00
Sundry Bonds,	12,688,789.28	575,989.10
Railroad Stocks,	1,847,187.43	74,075.00
Manufacturing and Tel. Stocks,	1,926,638.89	178,888.56
Real Estate Trust Stocks,	1,230,638.22	57,464.75
Sundry Stocks,	2,201,933.32	158,523.48
Total, Exhibit A,	<u>\$34,981,445.20</u>	
Total, Exhibit B,		<u>\$1,794,921.99</u>

SCHEDULE 3

LAND AND BUILDINGS—GENERAL INVESTMENT

June 30, 1921

Real Estate in Boston.	Principal.	Net Income.
Adams Estate, Washington Street,	\$250,000.00	\$15,145.29
Amory Estate, Franklin Street,	213,410.32	7,390.26
Brewer Estate, 36 and 37 South Market St., . .	23,428.93	947.72
Cowdin Estate, 13 to 16 Washington St., North, .	81,000.00	3,402.36
Estate, 128 to 136 Federal Street,	499,766.49	22,962.63
Estate, 364 and 366 Washington St.,	408,859.97	10,743.32
Estate, 376 to 378 Washington St.,	125,852.25	8.67
Estate, 31 and 33 Otis and 112 Arch Streets, . .	153,077.56	4,291.58
Faneuil Hall Square Estate,	197,047.80	8,328.84
Gerrish Block, Blackstone and North Streets, . .	192,875.75	14,136.07
Gray Estate, Washington Street,	1,013,661.60	103,644.46
Jaynes Estate, Washington and Hanover Streets,	202,000.00	12,000.00
Lowell Estate, Washington Street,	493,868.91	35,121.07
Old Boston Music Hall Estate,	Sold during yr.	*11,555.74
Townsend Estate, Hawkins Street,	44,419.49	1,371.23
Webb Estate, Washington Street,	164,604.79	19,164.57
Estate, 14 and 20 Franklin St.,	64,803.61	2,401.40
Estate, 17 and 19 Washington Street, North, . .	50,668.99	2,767.02
Estate, 20 and 21 Washington Street, North, . .	60,592.85	1,574.21
D. J. Hastings Estate, 531 to 535 Washington Street,	339,547.72	17,156.25
Estate, 175 to 183 Summer Street,	271,457.85	13,652.90
Real Estate in Cambridge.		
Little Block and Dunster Hall,	36,485.63	.....
Total, Exhibit A,	\$4,887,430.51	
Total, Exhibit B,		\$284,654.11

* Loss.

ABBREVIATIONS USED IN SCHEDULE 4, FUNDS AND GIFTS

The abbreviations G. Ex. and Sp. Ex. following the name of a school or department, indicate "general expense," and "special expense" respectively for that school or department. A memorandum of other abbreviations follows.

Ap. Chap.	Appleton Chapel, Schedule 33.
Arch.	Schools of Architecture and Landscape Architecture, Schedule 12.
A. A.	Arnold Arboretum, Schedule 22.
B. F.	Beneficiary Fund.
B. I.	Bussey Institution, Schedule 21.
B. H. Obs.	Blue Hill Meteorological Observatory, Schedule 27.
Bot. Garden ..	Botanic Garden, Schedule 23.
Bot. M.	Botanical Museum, Schedule 24.
Cap. Gain	Gain in Sale of Investments.
Cap. Loss	Loss in Sale of Investments.
Coll.	College, including Graduate School of Arts and Sciences, Schedule 7.
Dent.	Dental School, Schedule 20.
Div.	Divinity School, Schedule 13.
Engin.	Engineering School, Schedule 10.
Fd.	Fund.
Fell.	Fellowship.
F. & G.	Non-departmental Funds and Gifts, Schedule 39.
Fogg M.	Fogg Art Museum, Schedule 32.
Ger. M.	Germanic Museum, Schedule 31.
Gift Cap.	Gift for Capital.
Gr. Bus.	Graduate School of Business Administration, Schedule 11.
Gr. Ed.	Graduate School of Education, Schedule 15.
Gray Herb. ..	Gray Herbarium, Schedule 25.
H. Hosp.	Collis P. Huntington Memorial Hospital, Schedule 19.
L. F.	Loan Fund.
Lib.	Library, Schedule 8.
Med.	Medical School, Schedule 16.
M. C. Z.	Museum of Comparative Zoölogy, Schedule 28.
Obs.	Observatory, Schedule 26.
P. M.	Peabody Museum, Schedule 29.
P. Br. H.	Phillips Brooks House, Schedule 34.
Sal.	Salaries.
Sch.	Scholarships.
Sem Mus.	Semitic Museum, Schedule 30.
S. S.	Summer Schools, Schedule 9.
Still. Inf.	Stillman Infirmary, Schedule 36.
U.	University.

Funds and Gifts

FUNDS AND GIFTS

June 30, 1921

[The date following the title of a Fund shows the year of its establishment.]

UNIVERSITY

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Anonymous (1910),	\$133,263.79	Interest \$5,695.85	Annuities . . \$5,600.00	.....	\$133,359.64	
Anonymous No. 2 (1913),	35,155.30	" . . . 1,635.20	U. Ex. . . . 1,635.20	.....	
			Operating			
			Deficit (part)	.....	25,155.30	
§ Anonymous No. 4 (1916),	309,696.77	Gift Cap. . . 50,000.00		.....	
		Interest . . . 17,500.37	Annuities . . 15,715.54	.....	361,481.60	
Band Music (1903),	1,143.00	" . . . 61.72	U. Ex. . . . 61.72	.....	1,143.00	
Caroline M. Barnard Bequest (1911),	58,513.61	" . . . 3,162.99	" 2,462.99	.....	
			Coll. Sch. . . 700.00	.....	58,450.61	
			Cap. Loss . . 63.00	.....	
J. Arthur Beebe Bequest (1916),	241,175.00	" . . . 11,423.70	U. Ex. . . . 8,662.93	.....	241,175.00	
			F. & G. Sp. . . 2,760.77	.....	
S. Parkman Blake and Robert						
Parkman Blake Memorial (1917),	50,000.00	" . . . 2,700.00	U. Ex. . . . 2,700.00	.....	50,000.000	
Charlotte F. Blanchard (1891),	4,771.33	" . . . 1.56	" 1.56	.....	4,771.33	
Mrs. Francis Bowen Bequest (1919),	8,000.00	" . . . 432.00	Coll. Sal. . . 432.00	.....	8,000.00	
Samuel D. Bradford (1866),	5,250.00	" . . . 283.50	U. Ex. . . . 283.50	.....	5,250.00	
Martin Brimmer (1907),	50,000.00	.....	.....	.....	50,000.00	

Godfrey L. Cabot (1918),	10,000.00	Interest . . .	540.00	U. Ex. . . .	Operating Deficit (part)	5,000.00	540.00	5,000.00	5,000.00
James C. Carter (1906),	100,000.00		.....			.....		.....	100,000.00
John W. Carter (1898),	12,500.00	"	24.95	U. Ex. . . .		24.95		.....	12,500.00
Daniel L. F. Chase Bequest (1921),		Gift Cap. . .	2,000.00	"				.....
Fund of the Class of 1842 (1908), .	156.08	Interest . . .	20.14	"		20.14		.....	2,000.00
Twenty-fifth Anniversary Funds:		"	8.42	"		8.42		.....	156.08
Class of 1881 (1906),	114,899.19	"	6,204.54	"		6,204.54		.....	114,899.19
Class of 1882 (1907),	100,000.00	"	5,400.00	"		5,400.00		.....	100,000.00
Class of 1888 (1913),	100,000.00	"	5,529.00	"		5,529.00		.....	100,000.00
Class of 1889 (1914),	100,000.00	"	5,349.00	"		5,349.00		.....	100,000.00
Class of 1890 (1915),	92,575.38	Gift Cap. . .	350.00	"				.....
Class of 1891 (1916),	100,000.00	Interest . . .	4,989.15	"		4,989.15		.....	92,925.38
Class of 1892 (1917),	100,000.00	"	5,400.00	"		5,400.00		.....	100,000.00
Class of 1893 (1918),	100,000.00	"	3,500.00	"		3,500.00		.....	100,000.00
Class of 1894 (1916),	101,112.33	"	4,968.49	"		4,968.49		.....	100,000.00
Class of 1895 (1920),	95,000.00	"	5,018.32	"		5,018.32		.....	101,112.33
" " in memory of		"	5,130.00	"		5,130.00		.....	95,000.00
George C. Christian (1920), .	5,000.00	"	270.00	"		270.00		.....	5,000.00
Class of 1896 (1917),	51,902.65	Gifts Cap. . .	45,450.00					.....
Class of 1899 (1916),	55,799.91	Interest . . .	2,845.64	Cap. Loss. .		28.86		.....	100,169.43
		Gifts Cap. . .	7,000.00					.....
		Interest . . .	3,194.86					.....	65,994.77
Amounts carried forward, \$2,135,914.34									\$2,233,543.66

UNIVERSITY (continued)

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$2,135,914.34					\$2,233,543.66	
John Coggan (1852),	1,500.00	Interest . . . \$81.00	U. Ex. . . . \$81.00	.....	1,500.00	
Edwin Conant (1914),	1,061.60	" 57.35	" 57.35	.....	1,061.60	
Thomas Cotton (1727),	155.53	" 8.42	" 8.06	.....	155.89	
John Cowdin (1888),	33,835.06	Gift Cap. . . . 44,000.00	" 236.80	.....	77,835.06	
George B. Dorr (1882),	115,966.56	Interest 236.80	" 233.95	.....	115,966.56	
George Draper (1892),	48,458.50	" 96.70	" 96.70	.....	48,458.50	
Charles Church Drew Bequest (1920),	32,000.00	Gifts Cap. . . . 111,667.76	" 6,348.41			
		Cap. Gain . . . 48.00	Operating			
		Interest 6,348.41	Deficit (part)			
R. H. Eddy (1901),	56,788.00	" 113.02	U. Ex. . . . 113.02	.....	80,934.00	
Harvard Ellis (1895),	101,225.49	" 5,466.15	" 5,466.15	.....	56,788.00	
William Everett (1918),	4,448.18	" 299.48	" 299.48	.....	101,225.49	
Richard W. Foster (1905),	25,000.00	" 220.37	" 220.37	.....	4,448.18	
		Operating	Operating			
		Deficit (part)	Deficit (part)			
John Davis Williams French (1901), 10,864.98		Gifts Cap. . . . 500.01	" 326.74	.....	21,000.00	
		Interest 326.74	U. Ex. . . . 326.74	.....	11,364.99	
George A. Goddard Bequest(1921),		Gift Cap. . . . 5,000.00	" 56.97	.....	
		Interest 56.97	Operating			
		Deficit (part)	Deficit (part)			
Gore (1834),	20,571.18	.....	4,000.00	.....	1,000.00	
			.....	.....	20,571.18	

John C. Gray (1881),	25,000.00	Interest . . .	48.35	U. Ex. . . .	48.35	.....	25,000.00
Samuel S. Greeley Bequest (1918),	1,000.00	" . . .	54.00	" . . .	54.00	.....	1,000.00
Harvard Endowment (1917),							
Unrestricted	5,678,523.19	Gifts Cap. . .	1,416,376.34				
		Cap. Gain . .	10,780.10				
		Other Cap. . .		Cap. Loss . .	1,427.06		
		Receipts . . .	312.75	U. Ex. . . .	331,808.50		
		Interest . . .	342,444.74	F. & G. Sp. .	20,636.24	.....	7,094,565.32
In Memory Francis Lowell Gardner , Class 1862,	10,000.00	" . . .	540.00	U. Ex. . . .	540.00	.....	10,000.00
In Memory of William S. Coggin '16,	370.86	" . . .	20.04	" . . .	20.04	.....	370.86
William H. Schofield Fund, . .	505.46	Gift Cap. . .	9,500.00				
		Interest . . .	89.15	F. & G. Sp. .	505.46	.....	9,589.15
John W. Appel Loan Fd., . . .	4,103.32	" . . .	221.56		.....	.....	4,324.88
Atkins Fund for Tropical Research in Economic Botany,	73,417.38	Gift Cap. . .	10,000.00				
		Interest . . .	4,408.50		.....	.....	87,825.88
Edward Atkinson Fund, . . .	.....	Gift Cap. . .	4,500.00		.....	.....	4,500.00
George F. Baker Professorship of Economics,	100,000.00	Interest . . .	5,400.00	Coll. Sal. . .	5,400.00	.....	100,000.00
T. Jefferson Coolidge Fund for Department of Chemistry,	10,000.00	" . . .	540.00	" Sp. Ex. . .	540.00	.....	10,000.00
Department of Chemistry,	200.00	" . . .	10.80	" " . . .	10.80	.....	200.00
Department of Chemistry — Salaries and Equipment,	1,000.00	Gifts Cap. . .	2,000.00				
		Interest . . .	130.63	" " . . .	130.63	.....	3,000.00
John A. Morris Memorial, . . .	10,795.70	" . . .	582.98	" " . . .	582.98	.....	10,795.70
Amounts carried forward, \$8,502,705.33							\$10,137,024.90

UNIVERSITY (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$8,502,705.33					\$10,137,024.90	
Harvard Endowment 1917 (continued)						
Richard Hodgson Memorial, . .	60.68	Gift Cap. . . \$60.00				125.70
		Interest . . . 5.02				315.47
Department of Dramatic Literature,	299.32	" . . . 16.15				15.00
Department of Germanic Languages,	15.00	"81	Coll. Sp. Ex. .	\$.81		
Department of Music,	4,000.00	Gift Cap. . . 500.00	" " .	232.58		4,500.00
		Interest . . . 232.58				538.20
	512.50	" . . . 25.70				
William Reed Scholarship, . . .						
Jonathan Trumbull Professorship						
of American Government,		Gift Cap. . . 150.00				154.16
		Interest . . . 4.16				
Josiah Royce Memorial,	40.31	Gift Cap. . . 30.00				73.39
		Interest . . . 3.08				
Scholarship & Beneficiary Money Re-						
turned,	57.51	Gift Cap. . . 54.00				115.07
		Interest . . . 3.56				
Salary Professor DeWulf, . . .		Gift Cap. . . 70.00				71.08
		Interest . . . 1.08				
Graduate School of Arts & Sciences,	5.00	Gift Cap. . . 5.00	" " .	.43		10.00
		Interest43				159.87
Price Greenleaf Aid,	151.66	" . . . 8.21	Lib. G. " . 5,000.00	Dr. \$5,000.00		
Library,						
Library — In memory of Harry El-						
kins Widener,		Gift Cap. . . 60,000.00	" " . 1,818.24			60,000.00
		Interest . . . 1,818.24				

In Memory of Percy Chase '88, .	1,009.14	Interest . .	54.49	Lib. Books .	56.81	.....	1,006.82
Harry H. Hill Memorial,	887.98	"	47.95	" " .	6.09	.....	929.84
Richard Mather Jopling,	1,017.21	Gift Cap. . .	500.00	" " .		.....
In Memory of Charles Castner		Interest . . .	70.85	" " .	88.06	.....	1,500.00
Lilly,	10.31	" . . . .	.54		.....	.....	10.85
Dillwyn Parrish Starr Memorial,	3,377.82	Gift Cap. . .	410.00	" " .	166.20	.....	3,825.74
Engineering School,	2,683.33	Interest . . .	204.12	" " .		.....
		Gifts Cap. . .	583.34			.....
Interest		Interest . . .	162.70	Engin. G. Ex.	162.70	.....	3,266.67
Harvard Engineering Society of		"	1.78		.....	.....	35.11
N.Y. Scholarship,	33.33						
Graduate School of Business Admin-							
istration,	7,055.00	Gifts Cap. . .	2,522.50	Gr. Bus. " "	691.22	.....	9,577.50
Interest		Interest . . .	691.22			.....
Nathan Fechheimer Loan Fund,	5,000.00	"	270.00	" " B. F.	3,077.37	.....	2,342.63
School of Landscape Architecture, .	1,867.28	Loans repaid .	150.00	" " B. F.		.....
		Gift Cap. . .	500.00	Arch. G. Ex.	105.14	.....	2,367.28
Divinity School,	2,030.00	Interest . . .	105.14			.....
		Gift Cap. . .	30.00	Div. " "	110.59	.....	2,060.00
		Interest . . .	110.59			.....
Law School,	14,470.84	Gifts Cap. . .	8,251.54	Law " "	1,023.03	.....	22,722.38
		Interest . . .	1,023.03	" " Sp. "	54.00	.....	1,000.00
Law School Library,	1,000.00	"	54.00	" " Fell. . .	250.00	.....	10,405.30
Graduate Fellowships in Law School,	10,109.41	"	545.89			.....
Law School Scholarships,	208.92	Gift Cap. . .	10.00			.....
		Interest . . .	11.61		.....	.....	230.53
Amounts carried forward, \$8,558,607.88							\$10,264,383.49

UNIVERSITY (continued)					Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$8,558,607.88									\$10,264,383.49	
Harvard Endowment 1917 (continued)										
Law School, Sanford Robinson										
Scholarship,					505.78	Interest . . .	\$27.32	.....	533.10	
Law School Scholarship for first year					45.36	" . . .	2.43	.....	47.79	
student,										
Law School Scholarship for first-year					202.18	" . . .	10.91	Law Sch.	13.09	
student from Illinois,					5,103.01	Gift Cap. . .	5,000.00			
Law School, Max Epstein Loan Fd.,						Interest . . .	318.76	" B. F.	5,671.77	
M. J. and Jennie Mack Loan Fd.,					255.51	Gift Cap. . .	187.50			
						Interest . . .	19.28	.....	462.29	
Charles William Eliot Fund,										
see Graduate School of Education.										
Medical School,					12,305.00	Gifts Cap. . .	80.00			
						Interest . . .	666.58	Med. G. Ex.	12,385.00	
					8,540.00	" . . .	461.16	.....	9,001.16	
Medical School—Research,					10.00	" . . .	.54	Sp. "	10.00	
Medical School—Department of Der-										
matology,										
Medical School— Thomas Dwight					5.05	" . . .	.27	.....	5.32	
Memorial,										
Medical School—Department of Pa-					500.00	" . . .	27.00	" "	500.00	
thology,										
Medical School—School of Tropical					1,010.92	" . . .	54.60	.....	1,065.52	
Medicine,										

Dental School,	400.00	Gifts Cap. . .	290.00	30.13	Med. G. Ex.	30.13	690.00
Dental School, Housing Kazanjan Collection,	40.42	Interest . . .	30.13	.....		
Eugene Hanes Smith Scholarship,		" . . .	2.16	.....			42.58
		Gift Cap. . .	2,500.00	.....		
		Interest . . .	91.37	29.42	Dent. Sch.	29.42	2,561.95
Bussey Institution—Anna C. Ames Memorial Scholarship,	1,256.81	Gift Cap. . .	625.00	.....		
		Interest . . .	89.48	.....			1,971.29
Bussey Institution—Books for Library,	25.00	Gift Cap. . .	25.00	.....		
		Interest . . .	2.21	2.21	B. I. Sp. Ex.	2.21	50.00
Bussey Institution—Harvard Forest,	.....	Gift . . .	876.60	.....		
		Interest . . .	20.25	.....			896.85
Arnold Arboretum Endowment, <i>see Arnold Arboretum.</i>							
Arnold Arboretum—Stephen M. Weld Memorial, . . . . .	.....	Gift Cap. . .	25,000.00	.....		
		Interest . . .	617.65	617.65	A. A. G. Ex.	617.65	25,000.00
Observatory—Library, . . . . .	.....	Gift Cap. . .	1,000.00	.....		
		Interest . . .	8.75	.....			1,008.75
Blue Hill Observatory,	5,000.00	" . . .	270.00	270.00	B. H. Obs. G. Ex.	270.00	5,000.00
Museum Comparative Zoology, . . .	1,000.00	" . . .	54.00	54.00	M. C. Z. G. Ex.	54.00	1,000.00
Peabody Museum—Unrestricted, . . .	3,021.66	Gift Cap. . .	3,500.00	.....		
		Interest . . .	193.70	193.70	P. M. G. Ex.	193.70	6,521.66
Peabody Museum—Income only available,	500.00	" . . .	27.00	27.00	" "	27.00	500.00
Amounts carried forward, \$8,598,334.58							\$10,339,321.61

UNIVERSITY (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, Totals
Amounts brought forward, \$8,598,334.58					\$10,339,321.61
Harvard Endowment 1917 (continued)					
Peabody Museum Salaries,	1,030.63	Gift Cap. . . \$1,000.00			
		Interest . . . 64.37	P. M. Sal. . \$1,000.02		1,094.98
Peabody Museum—Subject to order of					
A. M. Tozzer,	2,057.64	" . . . 111.13	" Sp. Ex. 2,057.64		111.13
Peabody Museum — Henry N.					
Sweet Fund,	6,406.25	" . . . 520.70	" " 50.00		6,876.95
Fogg Art Museum,	100.00	Gift Cap. . . 1,500.00			
		Interest . . . 44.33	Fogg M.G. Ex. 44.33		1,600.00
Walter Hastings (1888),	20,000.00	" . . . 1,520.26	U. Ex. . . 1,520.26		20,000.00
Francis Lee Higginson (1916),	422,576.46	" . . . 22,999.10	Coll. Sal. . . 22,999.10		422,576.46
Henry L. Higginson (1906),	100,000.00	" . . . 59.39	U. Ex. . . 59.39		100,000.00
Thomas Hollis (for Treasurer) (1721),	520.00	" . . . 28.08	" " 28.08		520.00
John W. Houston Bequest (1919),	2,000.00	" . . . 108.00	" " 108.00		
		Operating			
		Deficit (part)			
Thomas Hubbard (1774),	1,000.00	" . . . 54.00	U. Ex. . . 54.00		1,000.00
Nathaniel Hulton (1695),	444.44	" . . . 23.98	" " 23.98		444.44
Thomas Hutchinson (1739),	233.33	" . . . 12.58	" " 12.58		233.33
George Baxter Hyde (1895),	5,000.00	" . . . 270.00	" " 270.00		5,000.00
Insurance and Guaranty (1860),	4,000.00	" . . . 12.50	Cap. Loss . . 3,000.00		
		U. Ex. . . 12.50	" " 33.38		1,000.00
Leonard Jarvis (1859),	16,871.63	" . . . 33.38	" " 33.38		16,871.63

A. Paul Keith Bequest (1920), . .	.....	Gift Cap. . .	112,500.00	U. Ex. . . .	3,262.19	
		Interest . . .	3,262.19	Operating		
				Deficit (part)	75,064.11	.....
Henry P. Kidder (1894),	10,000.00	"	.....	U. Ex. . . .	20.28	.....
Joseph Lee (1802),	10,000.00	"	20.28	"	1,274.94	.....
Morris Longstreth (1916), . . .	23,609.82	"	1,274.94	"	52.43	.....
Henry T. Morgan (1883),	970.68	"	52.43	"	24,819.43	.....
Thomas G. Mower Memorial (1920),	18,380.27	Gifts Cap. . .	24,819.43		250.00	.....
		Interest . . .	2,016.38	F. & G. Sp. .	31.19	.....
Israel Munson (1844),	15,750.00	"	31.19	U. Ex. . . .	678.86	.....
Henry S. Nourse (1904),	31,090.34	"	1,678.86	"	1,000.00	.....
				Annuities . .	226.31	.....
Francis E. Parker (1886),	113,817.44	"	226.31	U. Ex. . . .	1,350.00	.....
George F. Parkman (1909), . . .	25,000.00	"	1,350.00	"		.....
				Operating		
Henry L. Pierce (1898),	50,000.00	"		Deficit (part)	24,000.00	.....
Henry L. Pierce (Residuary) (1898),	251,066.10	"	2,700.00	Lib. G. Ex. .	2,700.00	.....
		"	7,106.59	"	2,368.86	.....
		Gifts Cap. . .	1,021.62	M. C. Z. G. Ex.	4,737.73	.....
				Operating		
President's (1883),	64,597.09	Interest . . .	3,488.24	U. Ex. . . .	3,356.39	.....
Retiring Allowance (1879),	419,695.76	"	22,663.58	F. & G. Sp. .	13,857.30	.....
Daniel Russell (1679),	1,514.00	"	81.76	U. Ex. . . .	81.76	.....
Mary R. Searle (1903),	1,852.25	"	100.01	Fogg M.Sp.Ex.	132.58	.....
					Dr. \$32.57	.....
Amounts carried forward, \$10,217,918.71						\$11,966,975.73

UNIVERSITY (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, June 30, 1921	Totals
Amounts brought forward,	\$10,217,918.71				\$11,966,975.73	
Richard Black Sewall Bequest	18,459.45	Interest . . .	U. Ex. . . . \$996.79	\$996.79		
(1919) (See Grad. Sch. of Educ.)			Operating			
			Deficit (part)	18,459.45		
Lawrence E. Sexton Bequest (1921),		Gift Cap. . .				
		Interest. . .	U. Ex. . . . 44.12		6,931.11	
Archibald L. Smith Bequest (1920),		Gift Cap. . .				
		Interest. . .	" . . . 34.61	34.61		1,000.00
G. E. Walter Ullrich Memorial (1921),		Gift Cap. . .	" . . . 152.66	152.66		
		Interest . . .	Operating			
			Deficit (part)	5,000.00	829.00	
Fiske Warren (1921),		Gift Cap. . .			1.00	
		Interest. . .	U. Ex. . . . 202.76	202.76	100,000.00	
William F. Weld (1893),	100,000.00	Gift	" . . . 624.61	624.61		
Gift for General Purposes,						
Gifts for trees :						
Class of 1883,	50.00				50.00	
Robert L. McCook,	591.28	Interest. . .			614.93	
Gifts for purchase of painting "The						
Three Philosophers,"	800.00	Gifts . . .	U. Sp. Ex. . . 2,000.00		250.00	
Gift for expenses Alumni Directory						
Office,		Gift	" . . . 500.00	500.00		
Gifts for War Activities Fund, . . .	29,194.59	Interest . . .				
		Other receipts	F. & G. Sp. . . 12,051.85		19,613.09	\$12,096,264.86

COLLEGE

John W. P. Abbot (1874),	\$21,207.54	Interest . . .	\$1,145.23	Coll. G. Ex. .	\$572.62	.....	\$21,780.15
Alford Professorship (1765), . . .	31,001.54	" . . .	1,674.11	" Sal.	1,674.11	.....	31,001.54
Thomas J. Allen (1914),	30,105.00	" . . .	1,625.67	G. Ex. .	1,625.67	.....	30,105.00
Percy Lee Atherton Gift (1915), .	10,929.12	" . . .	590.17	" Sp. " .	625.00	.....	10,894.29
Edward Atkinson (1919)	26,927.50	" . . .	2,122.91	Cap. Loss .	190.00	.....
Daniel Austin (1879),	7,806.86	" . . .	421.58	Coll. Sal. .	1,251.05	.....	27,609.36
William H. Baldwin, Jr., 1885				Lib. G. Ex. .	421.58	.....	7,806.86
(1906),	5,588.96	" . . .	301.81	Trans. to Harv.			
John B. Barringer (1873),	30,686.85	" . . .	1,657.10	Ec. Studies .	301.81	.....	5,588.96
Louise E. Bettens (1915),	22,210.55	" . . .	1,199.39	Coll. Sal. .	1,657.10	.....	30,686.85
Robert Charles Billings, for				" Sp. Ex.	3,250.00	.....	20,159.94
Gray Herbarium (1903),	15,000.00	" . . .	810.00	Gray Herb. .	810.00	.....	15,000.00
John A. Blanchard (1873),	1,050.00	" . . .	56.70	Coll. G. Ex. .	56.70	.....	1,050.00
Botanic Department (1880),	39,780.00	" . . .	2,148.12	" Sp. " .	805.54	.....
Boylston Professorship (1772), . . .	28,337.40	" . . .	1,530.20	Bot. Garden .	1,242.58	.....	39,780.00
Charles Osmyn Brewster (1912),	10,072.89	" . . .	543.94	Coll. Sal. .	1,530.20	.....	28,337.40
Twenty-fifth Anniversary Funds:				" Sp. Ex.	500.00	.....	10,116.83
Class of 1880 (1905),	103,669.41	" . . .	5,598.13	" Sal. . .	5,598.13	.....	103,669.41
Class of 1883 (1908),	100,000.00	Gift Cap. . .	500.00	" G. Ex. .	5,400.00	.....	100,500.00
Class of 1884 (1909),	100,099.91	Interest . . .	5,400.00	" " . .	5,405.40	.....	100,099.91
Class of 1885 (1910),	111,840.00	" . . .	5,405.40	" " . .	6,039.36	.....	111,840.00
Class of 1886 (1911),	100,000.00	" . . .	6,039.36	" " . .	5,400.00	.....	100,000.00
Class of 1887 (1912),	100,000.00	" . . .	5,400.00	" " . .	5,400.00	.....	100,000.00
		" . . .	5,400.00	" " . .	5,400.00	.....	100,000.00

Amounts carried forward, \$11,263,327.56 \$896,026.50 \$12,096,264.86

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$11,263,327.56	\$11,263,327.56				\$896,026.50	\$12,096,264.86
Class of 1883 Special Fund (1908),		Interest . . . \$23.60			461.09	
Class Subscription (1870),	437.49	" . . . 8,134.45	Coll. Sal. . . \$8,134.45		150,637.54	
Classical Publication Fund of the						
Class of 1856 (1888),	7,179.37	" . . . 387.67	" Sp. Ex.	Cr. \$145.62	7,179.77	
Edward W. Codman (1905),	320,378.34	" . . . 9,770.41	" G. "	9,770.41	320,378.34	
Helen Collamore Bequest, Gray						
Herbarium (1916),	1,515.00	" . . . 81.81	Gray Herb. .	81.81	1,515.00	
T. Jefferson Coolidge, for Re-						
search in Physics (1901),	17,417.63	Gift Cap. . . 20,000.00			37,417.63	
		Interest . . . 1,064.83	Coll. Sp. Ex.	1,064.83	5,000.00	
George G. Crocker (1913),	5,000.00	" . . . 270.00	" G. "	270.00		
Ernest B. Dane in Physics (1912),	53,860.82	" . . . 2,908.49				
		Gift . . . 2,550.00				
		Other receipts 1,064.86	" Sp. "	1,394.85	58,989.32	
Paul Dudley (1751),	5,289.95	Interest . . . 285.66	F. & G. Sp. .	161.58	5,414.03	
Alexis Irenée Du Pont (1917),	102,607.70	Cap. Gain . . 7,000.00				
		Interest . . . 5,798.48	Coll. Sp. Ex.	3,858.69	111,547.49	
Eaton Professorship (1903),	117,219.44	" . . . 6,329.83	" Sal. . .	6,329.83	117,219.44	
Eliot Professorship (1814),	21,619.50	" . . . 1,167.48	" " . .	1,167.48	21,619.50	
Eliot Professorship (Jonathan						
Phillips's gift) (1854),	10,000.00	" . . . 540.00	" " . .	540.00	10,000.00	
Erving Professorship (1791),	3,500.01	" . . . 189.00	" " . .	189.00	3,500.01	
John S. Farlow Memorial (1898),	101,961.89	" . . . 5,505.94	" " . .	1,200.00		
		" . . . 5,505.94	" Sp. Ex.	2,530.86	103,736.97	

Fisher Professorship (1834),	41,703.76	Interest . . .	2,252.02	Coll. Sal. . .	2,252.02	.....	41,703.76
Henry Flynt (1760),	436.37	" . . .	23.54	" " . .	16.38	.....
Fund for Permanent Tutors (1796), . .	16,240.38	" . . .	876.96	Arch. " . .	5.46	.....	438.07
Fund for Religious Services (1887), . .	1,033.57	" . . .	55.84	Coll. " . .	876.96	.....	16,240.38
George A. Gardner (1892), . . .	5,683.02	" . . .	306.88	Ap. Chap. .	55.84	.....	1,033.57
Wolcott Gibbs Memorial Endowment (1912),	24,517.27	" . . .	1,323.92	Coll. Sp. Ex.	378.61	.....	5,611.29
Godkin Lectures (1903),	20,694.20	" . . .	1,117.48	" " . .	1,891.06 Dr.	567.14	24,517.27
Gospel Church (1868),	9,783.78	" . . .	528.34	F. & G. Sp.	621.16	.....	21,190.52
Asa Gray Memorial (1898),	33,211.00	Gift Cap. . .	100.00	Coll. Sal. . .	264.17	.....	10,047.95
Asa Gray Professorship of Systematic Botany (1897),	21,451.25	Interest . . .	1,793.39	Gray Herb. .	1,793.39	.....	33,311.00
Gurney (1888),	200,096.86	" . . .	1,159.92	" " . .	1,159.92	.....	21,451.25
George Silsbee and Ellen Sever Hale (1904),	6,039.05	" . . .	10,805.24	Coll. Sal. . .	10,805.24	.....	200,096.86
Harvard Foundation for Exchanges with French Universities (1912), . .	35,876.19	" . . .	326.10	Trans. to Lib. Fd.	326.10	.....	6,039.05
Harvard Oriental Series (1899), . . .	15,408.28	" . . .	1,937.30	U. Sp. Ex. .	600.00	.....	37,213.49
Herbarium (1865),	20,655.91	" . . .	832.03	Coll. Sp. Ex.	832.03	.....	15,408.28
Hersey Professorship (1772),	20,217.08	" . . .	1,115.42	Gray Herb. .	1,115.42	.....	20,655.91
Hersey Professorship (Thomas Lee's gift) (1856),	21,744.18	" . . .	1,091.72	Coll. Sal. . .	655.03	.....	20,217.08
Amounts carried forward, \$12,676,744.39		" . . .	436.69	Med. " . .	436.69	.....	20,217.08
		" . . .	1,174.18	Coll. " . .	1,174.18	.....	21,744.18
		.....		.....			<u>\$2,347,562.54</u>
							<u>\$12,096,264.86</u>

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$12,676,744.39						
Richard Hodgson Memorial (1912),	15,526.65	Interest . . .	\$838.46	Coll. Sp. Ex.	\$16.39	\$2,347,562.54
Albert Fairchild Holden Bequest (1917),	2.52	" . . .	.16			12,096,264.86
Rose Hollingsworth (1916),	500.00	" . . .	27.00	Gray Herb. .	27.00	2.68
Hollis Professorship of Mathematics,	3,942.17	" . . .	212.87			500.00
Composed of these Funds:—						4,155.04
Thomas Brattle (1713),						
William Dummer (1762),						
Daniel Henchman (1758),						
Thomas Hollis (1726),						
Augusta P. Hope (1920),	.....	Gift Cap. . .	3,169.68			
		Interest . . .	212.42	F. & G. Sp. .	210.67	3,171.43
John E. Hudson Professorship in Archaeology (1917),	156,296.27	" . . .	8,440.00	Coll. Sal. . .	6,000.00	158,736.27
Ingersoll Lecture (1894),	8,071.19	" . . .	435.83	F. & G. Sp. .	404.18	8,102.84
Gardiner M. Lane Bequest (1914),	1,669.26	" . . .	90.13	Coll. Sp. Ex.	156.43	1,602.96
Abbott Lawrence (1859),	63,405.12	" . . .	3,423.87	" Sal. . .	1,711.94	
		" . . .	2,821.23	Engin. " .	1,711.93	63,405.12
James Lawrence (1865),	52,244.91	" . . .	1,410.62	Coll. " . .	1,410.62	
		" . . .	1,410.61	Engin. " .		52,244.91
George H. Leatherbee Lecture Fund (1913),	61,129.92	" . . .	3,301.02	Gr. Bus. Sal.	3,301.02	61,129.92
Lectures on Political Economy (1889),	16,712.93	" . . .	902.50	F. & G. Sp. .	336.82	17,278.61

Lee Fund for Reading (1863), . . .	15,796.97	Interest . . .	853.04	Coll. Sal. . .	853.04	.....	15,796.97
Henry Lee Professorship (1900), .	124,813.18	" . . .	6,739.90	" " . . .	6,739.90	.....	124,813.18
Solomon Lincoln Bequest (1911),	13,376.02	" . . .	722.30				
		Sales . . .	101.94	" Sp. Ex.	582.95	.....	13,617.31
Calvin Stoughton Locke (1915),	1,000.00	Interest . . .	54.00	" " . . .	54.00	.....	1,000.00
Morris Loeb Bequest (1914), . . .	505,748.92	" . . .	25,184.96	Cap. Loss .	8,105.04	.....
				Annuities .	21,881.86	.....	500,946.98
Joseph Lovering for Physical Research (1891),	7,882.75	" . . .	425.68				
		Sales . . .	49.80	Coll. Sp. Ex.	351.04	.....	8,007.19
Lowell Fund for a Botanic Garden (1882) (formerly Professorship of Natural History, 1805),	69,074.76	Interest . . .	3,730.05	Bot. Garden .	3,730.05	.....	69,074.76
Woodbury Lowery Memorial (1910),	23,586.78	" . . .	1,273.70	Coll. Fell. .	2,100.00	.....	22,760.48
Arthur T. Lyman (1904),	60,000.00	" . . .	3,240.00	" Sal. . .	3,240.00	.....	60,000.00
Charles Nicholas McCall Fund (1912),	77,418.82	.....				.....	77,418.82
McLean Professorship (1834), . . .	43,062.93	" . . .	2,325.40	" " . . .	2,325.40	.....	43,062.93
Maria E. McMaster Bequest (1917),	7,922.18	" . . .	427.79			.....	8,349.97
Matchett Fund (1913),	325,000.00	" . . .	17,550.00	" G. Ex. .	17,550.00	.....	325,000.00
Emily H. Moir Bequest (1914), .	48,801.00	" . . .	969.57	" " . . .	969.57	.....	48,801.00
Music Building Maintenance Fund (1911),	54,260.78	" . . .	2,930.10	" Sp. " .	2,779.88	.....	54,411.00
Music Department (1903),	347.90	" . . .	18.79			.....	366.69
James J. Myers (1916),	97,296.39	" . . .	5,233.98	Annuities .	7,000.00	.....	95,550.37
Amounts carried forward, \$14,531,634.71							\$4,203,218.69 \$12,096,264.86

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, June 30, 1921	Totals
Amounts brought forward, \$14,531,634.71					\$4,203,218.69	\$12,096,264.86
John Newgate (1650),	333.33	Interest . . . \$17.98	Div. G. Ex. . \$17.98		333.33	
William Belden Noble Lectures (1898),	33,756.27	" . . . 1,822.83				
		Sales . . . 9.32			35,588.42	
Henry Kemble Oliver (1899) (Formerly Prof'ship of Hygiene Fds.)	393,315.02	Interest . . . 21,206.51	Coll. Sal. . 12,500.00			
		" . . . 1,183.41	" Sp. Ex. 2,065.00		399,956.53	
Trenor L. Park Bequest (1911), . .	21,914.79	" . . . 1,183.41	G. " 1,183.41			
			Operating			
			Deficit (part)	21,000.00	914.79	
Francis Greenwood Peabody Fund (1905),	118,716.93	" . . . 6,410.72	Coll. Sal. . 6,410.72		118,716.93	
Daniel H. Peirce (1876),	15,360.42	" . . . 829.44	" " 746.50		15,443.36	
Perkins Professorship (1841), . . .	22,071.00	" . . . 1,191.83	" " 1,191.83		22,071.00	
Jonathan Phillips (1861),	31,500.00	" . . . 1,701.00	G. Ex. 1,701.00		31,500.00	
Physical Laboratory Endowm't (1881),	75,000.00	" . . . 4,050.00	" " " " " "			
		Gifts . . . 9,000.00	" Sp. " 6,794.31	Cr. \$6,255.69	75,000.00	
Plummer Foundation (1854), . . .	26,296.21	Interest . . . 1,419.98	Div. Sal. . . 1,419.98		26,296.21	
Pope Professorship (1868),	52,500.00	" . . . 2,835.00	Coll. " . . 2,835.00		52,500.00	
Sarah E. Potter Endowment (1907),	201,490.38	" . . . 10,880.46	Gray Herb. . 10,880.46		201,490.38	
Professorship of Latin-American His- tory and Economics (1913),	139,607.97	" . . . 7,538.83	Coll. Sal. . . 4,500.00			
		" Sp. Ex. . 11.70	" " " " " "		140,111.01	
			Lib. Books . 2,524.09			

Nelson Robinson, Jr. Additional

(1906),	177,008.44	Interest . . .	108.43	Coll. Sal. . .	553.48	
Eliza O. and Mary P. Ropes				" Sp. Ex.	1,563.39	175,000.00
(1909),	123,530.91	"	5,926.54	" Sal. . .	5,926.54	123,530.91
Josiah Royce Memorial (1918), . .	9,857.03	"	528.27	F. & G. Sp. .	425.89	9,959.41
Rumford Professorship (1819), . . .	62,565.99	"	3,378.56	Coll. Sal. . .	3,378.56	62,565.99
John L. Russell (1889),	2,000.00	"	108.00	Bot. Garden	27.00	
Wallace C. Sabine Memorial (1919), 101,141.31		"	4,596.11	Gray Herb. .	81.00	2,000.00
George William Sawin (1890), . .	9,023.87	"	487.30	F. & G. Sp. .	5,386.31	100,351.11
Robert W. Sayles (1906),	5,091.68	"	274.97			9,511.17
William H. Schofield Bequest						5,366.65
(1921),		Gift Cap. .	10,000.00			
Shaler Memorial (1907),	40,703.58	Interest . .	2,198.02	Coll. Sp. Ex.	10,000.00	10,000.00
Smith Professorship (1816),	23,139.83	"	1,249.56	" Sal. . .	1,249.56	32,901.60
William M. Spackman (1905), . .	2,500.00	"	135.00	" G. Ex. .	135.00	23,139.83
Henry Baldwin Stone Memorial						2,500.00
(1914),	53,460.00	"	3,300.00	" " "		
Teachers' Endowment (1905),	2,043,633.91	"	109,461.24	" Sal. .	107,661.24	53,460.00
John E. Thayer (1885),	16,000.00	Gifts . . .	200.00	Sem. Mus.	2,000.00	
		Gift . . .	160.00			2,043,633.91
		Interest . .	864.00			
Henry Warren Torrey (1890), . .	10,634.22	Sales . . .	4,550.75	F. & G. Sp. .	4,238.50	Cr. 1,460.11
		Interest . .	574.24			15,876.14
		Sales . . .	250.11	Coll. Sp. Ex.	883.39	
Amounts carried forward, \$18,343,787.80						10,575.18
						\$8,003,512.55
						\$12,096,264.86

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$18,343,787.80					\$8,003,512.55	\$12,096,264.86
Henry Villard (1902),	50,000.00	Interest . . . \$101.38	Coll. Sal. . . 101.38	.....	50,000.00	
Wales Professorship (1903),	39,540.20	" . . . 2,135.16	" " . . . 1,835.16	.....	
			Trans. to Lib. Fd. 300.00	.....	39,540.20	
Samuel Ward (1680),	27,840.23	" . . . 1,503.31	Coll. B. F. . 277.00	.....	29,066.54	
Cyrus M. Warren (1893),	7,990.04	" . . . 431.46	.....	.....	8,421.50	
Henry C. Warren (1899),	124,779.54	" . . . 6,738.12	" Sal. . . 3,664.84	.....	121,659.83	
			" Sp. Ex. 6,192.99	.....	13,354.91	
Sylvester Waterhouse (1896),	12,670.68	" . . . 634.23	.....	.....	50,000.00	
Increase Sumner Wheeler (1889),	50,000.00	" . . . 2,700.00	Ap. Chap. . . 2,700.00	.....	
Jerome Wheelock (1903),	266.12	Gift Cap. . . 10.00		.....	290.81	
		Interest . . . 14.69		.....	
Edward Wheelwright (1915),	75,000.00	" . . . 4,050.00	Coll. G. Ex . 4,050.00	.....	
			Operating	.....	5,000.00	
			Deficit (part) 70,000.00	.....	
Alfred Tredway White Endowment (1919),	55,041.48	Gift Cap. . . 44,250.00	Cap. Loss . . 426.00	.....	100,264.62	
		Interest . . . 5,066.21	Coll. Sal. . . 3,667.07	.....	5,437.50	
Davies Wilson (1913),	5,437.50	" . . . 293.65	" G. Ex. . 293.65	.....	61,537.27	8,488,085.73
Morrill Wyman (1915),	61,230.80	" . . . 3,306.47	" Sal. . . 3,000.00	.....	
GIFTS FOR SPECIAL USE (BALANCES)						
Gifts for salaries,	\$2,550.00	Gifts . . . \$6,625.00	Coll. Sal. . . \$7,810.90	.....	\$1,364.10	
Gift of Evan Randolph,	365.63	Gift . . . 100.00	" Sp. Ex. 465.63	.....	.....
Dept. of Astronomy — Gifts for Apparatus	130.00	" . . . 100.00	" " 230.00	.....	.....

Dept. of Astronomy — Gift for Lecture	.....	Gift . . .	70.00	Coll. Sp. Ex.	70.00	.....	.....
Dept. of Botany — Gift for purchase of collections for Cryptogamic Her- barium . . . . .	.....	" . . .	2,000.00	" "	500.00	.....	1,500.00
Dept. of Botany — Gift for expenses Plant Physiology,	377.84		.....		.....	.....	377.84
Dept. of Chemistry — Anon. Gift for Research, Wolcott Gibbs Laboratory, 6.027.61		" . . .	5,000.00	" "	5,273.33	.....	5,871.46
		Interest . .	117.18	" "			
Dept. of Classics — Gifts for Depart- ment,	833.33	Gifts . . .	150.00	" "	100.00	.....	910.60
		Interest . .	27.27	" "	.....	.....	227.13
Dept. of Classics — Haynes Book Fund,	203.73	Sales . . .	23.40		.....	.....
Dept. of Classics — Gift for Classical Library,	293.22		.....	" "	178.65	.....	114.57
Dept. of Classics — George Gris- wold Van Rensselaer Memorial Gift for Collection of Classical An- tiquities,	1,063.29	Interest . .	19.29	" "	835.55	.....	247.03
Dept. of Economics — Gifts for Depart- ment,	493.03		.....	" "	103.64	.....	389.39
Dept. of Economics — Books in Eco- nomics A,	13.15		.....		.....	.....	13.15
Dept. of Economics — Economics 2 Book Fund,	234.22		.....	" "	359.10	Dr. \$124.88	.....
Dept. of Economics — Gift for Research in Public Finance,	121.42		.....		.....	.....	121.42
Amounts carried forward, \$18,866,290.86							\$11,136.69 \$20,584,850.59

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, Totals
Amounts brought forward, \$18,866,290.86					\$11,136.69 \$20,584,350.59
Dept. of Economics—Gift for Research in Taxation,	5.11				5.11
Dept. of Economics—Harvard Economic Studies,		Sales . . . \$1,931.24 Trans. from W. H. Bald- } win Fd. . . }			
		301.81	Coll. Sp. Ex. \$2,572.08	Dr. \$339.03	
Dept. of English—English A Fund, .	109.48	Gift 50.00 Sales 566.43			33.04
Dept. of Fine Arts—Gift for photographs and slides in Fine Arts 1c, . .	231.26				229.16
Dept. of Fine Arts—Gift for slides and photographs in Drawing Courses, . .	119.71				119.71
Dept. of French and other Romance Languages—Dept. Library,	7.41				3.06
Dept. of French and other Romance Languages—Gift for Experimental Phonetics,	78.08				31.61
Dept. of Geology—Gift for honorarium		Gift 100.00			
Dept. of Geology—Gift for Lecture .		" 50.00			
Dept. of Geology—Gift for Special Fund in Economic Geology,	611.81	" 250.00 Interest 11.16			82.00

Dept. of Geology — Gift for Expenses of Visiting Professors,	11.59	.....	Coll. Sp. Ex.	11.59	.....	.....
Dept. of Germanic Languages — Gifts for Books,	50.00	.....	.....	.....	.....	50.00
Dept. of Government — Gifts for Bureau of Research in Municipal Government, . . . . .	.....	Gift	“ “	2,700.00	.....	.....
Dept. of Government — Frank Graham Thomson Gift,	1,544.16	“	“ “	4,596.88	.....	1,947.28
Dept. of Government — Gift for expenses in Government 1,	2.65	“	“ “	30.00	.....	.....
Dept. of Government — Gift for books on School Administration,	23.34	.....	.....	.....	.....	23.34
Division of History, Government and Economics — Gift for purchase of books for Board of Tutors . . . . .	.....	“ . . . . .	“ “	25.09	.....	24.91
Dept. of History — F. P. Bonney Gift,	8.43	.....	.....	.....	.....	8.43
Dept. of History — History 1 Book Fd., 141.46	141.46	Sales	“ “	1,090.11	Dr. 693.94	.....
Dept. of History — Gift Expenses Harvard Commission on Western History,	723.63	Interest . . . . .	.....	.....	.....	752.58
Dept. of History — Gift for lecture by Prof. A. P. Newton of London Univ.,	37.70	.....	.....	.....	.....	37.70
Dept. of Hygiene — Gift of U. S. Interdepartmental Social Hygiene Board — Salaries 1919-20,	13,600.00	.....	“ “	13,600.00	.....	.....
Dept. of Mathematics — Gift for Department,	30.00	.....	.....	.....	.....	30.00
Amounts carried forward, \$18,883,626.68						\$14,509.51 \$20,584,350.59

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$18,883,626.68					\$14,509.51	\$20,584,350.59
Dept. of Mathematics — Mathematics						
Book Fund,	241.04	Sales . . .	\$17.69	Coll. Sp. Ex.	\$149.73	109.00
Dept. of Military Science — Gift for developing phototopography, . . .	383.51	.....		" "		283.51
Dept. of Mineralogy — Gift for Expenses,	5.00	Gift . . .	225.00			230.00
Dept. of Mineralogy — Gift for Microscope,		" . . .	500.00			500.00
Dept. of Mineralogy — Gift for working tourmaline deposit in Maine, . . .	682.96	Interest . . .	27.32			710.28
Gifts for Dept. of Music,	162.85	Gifts . . .	830.00			117.26
		Other receipts	761.90	" "	1,637.49	
Dept. of Philosophy — Books on Eugenics,	5.01	.....		" "	5.01	
Dept. of Philosophy — Philosophical Library Gifts,	303.74	Gifts . . .	200.00	" "	303.49	200.25
Dept. of Philosophy — Gift for Profes- sorship of Japanese Literature, . .	440.04	.....				440.04
Dept. of Philosophy — Gift for Special Use at Psychological Laboratory, . .	16.95	.....		" "	2.00	14.95
Dept. of Philosophy — Gift for expenses of publishing Texts in Scholastic Phi- losophy,		Gift . . .	1,000.00			1,000.00
Dept. of Physics — Gift for salary of laboratory assistant,	1,158.19	Gifts . . .	3,750.00			4,260.12
		Interest . . .	54.43	" "	702.50	

Dept. of Physics — Gift for High Voltage Electrical Laboratory,	4,278.68	Interest . . .	85.57	Coll. Sp. Ex.	2,661.77	.....	1,702.48
Dept. of Physics — Gift for Storage Battery at Jefferson Physical Lab., Department of Sanskrit, . . . . .	..... 6,531.52	Gift Interest . . . Sales	1,500.00 268.63 874.42 .....	" " " "	" " " "	..... ..... ..... .....	..... ..... 7,674.57 163.79
Dept. of Sem. Lang. — Gift Semitic Lib.	168.32						
Dept. of Social Ethics — Anonymous Gift,	2,915.55	Interest . . . Sales	116.62 11.91	" " " "	2,557.14	.....	486.94
Dept. of Social Ethics — Gift for assistant, . . . . .	.....	Gift	500.00	" " " "	500.00	.....	.....
Dept. of Social Ethics — Gift for furnishing rooms,	51.24	.....	.....	.....	.....	.....	51.24
Dept. of Social Ethics — Library Gifts,	288.65	.....	.....	" " " "	4.91	.....	283.74
Dept. of Zoölogy — Bermuda Biological Station,	1,074.93	Gifts Interest . . .	725.00 22.11	" " " "	571.61	.....	1,250.43
Gifts for binding collection of books sent to Southwark Public Library at London,	12.44	.....	.....	.....	.....	.....	12.44
Committee on Economic Research, . .	.....	Gifts Other receipts	1,500.00 19,613.27	" " " "	13,410.84 Cr.	\$7,702.43 ..... .....	..... 137.94 34,143.60
Solon F. Whitney Bequest	137.94						
Amounts carried forward, \$18,902,485.24							\$34,138.49 \$20,618,494.19

COLLEGE (continued)

<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$18,902,485.24				\$34,138.49	\$20,618,494.19
FELLOWSHIP					
Edward R. Bacon Art Scholarship (1921),	Gift Cap. . . \$40,621.76			\$41,103.19	
	Interest . . . 481.43				
Walter Channing Cabot (1905), .	" . . . 3,272.72			63,878.89	
Victor Emanuel Chapman Memorial (1917),	Cap. Gain . . 30.00				
	Interest . . . 1,315.86	Gr. Bus. Fell. \$1,200.00		26,735.83	
Joseph Hodges Choate Memorial (1919),	" . . . 2,175.12	Law Sch. . 1,800.00		40,655.12	
Bayard Cutting (1910),	" . . . 1,471.12	Coll. Fell. . 1,250.00		27,464.30	
W. Bayard Cutting, Jr. Bequest (1910),	" . . . 806.49	" . . 375.00		15,366.09	
Charles Dexter Memorial (1919), .	Gifts Cap. . . 6,577.54				
	Interest . . . 1,904.12			37,236.03	
George W. Dillaway (1903), . . .	" . . . 391.60	" . . 300.00		7,344.06	
Du Pont Fellowship in Chemistry (Gift),	Gift . . . 750.00	" . . 750.00			
Ozias Goodwin Memorial (1889), .	Interest . . . 680.24	" . . 575.00		12,702.67	
William Watson Goodwin (1915),	" . . . 1,060.13	" . . 650.00		20,042.44	
Harris (1868),	" . . . 661.23	" . . 550.00		12,356.69	
Edward William Hooper (1905), .	" . . . 1,902.90			37,141.83	
John Thornton Kirkland (1871),	" . . . 722.68	" . . 525.00		13,580.93	
Henry Lee Memorial (1889), . . .	" . . . 729.54	" . . 600.00		13,639.53	

Elkan Naumburg (1911),	10,550.61	Interest . . .	569.75	Coll. Fell. .	500.00	.....	10,620.36
Charles Eliot Norton (1901), . .	23,638.35	Cap. Gain . .	825.00	"	"	.....	23,608.40
John Knowles Paine (1912), . .	28,763.17	Interest . . .	1,045.05	"	"	.....	23,608.40
		Gift Cap. . .	32,344.72			.....
Robert Treat Paine (1887), . . .	15,747.08	Interest . . .	2,114.22	Annuities .	560.25	.....	62,661.86
John Parker (1873),	77,492.50	"	850.34	"	"	.....	16,597.42
Francis Parkman (1906),	11,648.62	"	4,184.56	Coll. Fell.	3,750.00	.....	77,927.06
Princeton (1910),	11,648.62	"	629.05	"	"	.....	11,777.67
Rogers (1869),	11,891.01	"	642.11	Law	500.00	.....	12,033.12
Henry Bromfield Rogers Memorial (1889),	41,617.25	"	2,247.32	Coll.	1,600.00	.....	42,264.57
Gift for Fellowship in Roosevelt Research,	12,956.13	"	699.62	"	600.00	.....	13,055.75
Sachs Research Fellowship in Fine Arts (1916), . . . . .	.....	Gift	425.00	"	425.00	.....	.....
Henry Russell Shaw (1912), . .	45,958.97	Interest . . .	2,481.79	"	2,000.00	Dr. \$2,000.00	.....
Social Ethics,	105.13	.....	.....	"	.....	.....	48,440.76
South End House (balance),	10.04	.....	.....	"	100.00	Dr. 89.96	105.13
Spanish American Fellowship (Gift), .	520.00	Gift	500.00	"	250.00	.....	.....
Thayer (1857),	92,399.21	Interest . . .	4,989.55	"	2,500.00	.....	770.00
John Tyndall (1885),	14,297.25	"	772.04	Sch.	1,750.00	.....	93,138.76
James Walker (1881),	13,148.66	"	710.05	Fell.	625.00	.....	14,444.29
Whiting (1896),	29,073.44	"	1,569.94	"	575.00	.....	13,283.71
Amounts carried forward, \$19,644,570.78	.....	.....	.....	"	1,400.00	.....	29,243.38
		.....	.....	.....	.....	.....	839,219.84
		.....	.....	.....	.....	.....	\$21,457,714.03

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, Totals
Amounts brought forward, \$19,644,570.78					\$21,457,714.03
		SCHOLARSHIP			
Abbot (1852),	\$4,327.79	Interest . . . \$233.71	Coll. Sch. . . \$225.00	.....	\$4,336.50
Alford (1785),	4,480.75	" . . . 241.97		.....	4,722.72
Anonymous Gift for Scholarship in Harvard College,	200.00	.....	.....	.....	200.00
Bartlett (1881),	5,812.23	" . . . 313.89	" " . . 300.00	.....	5,826.12
Matthew and Mary E. Bartlett Memorial (1916),	20,551.50	" . . . 1,109.75	" " . . 425.00	.....
Bassett (1876),	6,429.86	" . . . 347.22	Med. " . . 425.00	.....	20,811.25
Bigelow (1865),	15,446.26	" . . . 834.08	Coll. " . . 347.22	.....	6,429.86
Samuel A. Borden (1896),	5,035.11	" . . . 271.89	" " . . 700.00	.....	15,580.34
Bowditch (1864),	128,015.58	" . . . 6,912.86	" " . . 200.00	.....	5,107.00
Bright (balance),	7,624.96	" . . . 411.75	" " . . 6,550.00	.....	128,378.44
Addison Brown (1914),	8,132.16	Trans. from Fd. 1,350.00	Engin. " . . 300.00	.....	7,936.71
Browne (1887),	4,546.88	Interest . . . 439.13	Coll. " . . 375.00	.....	8,196.29
Morey Willard Buckminster (1898),	6,246.27	" . . . 245.54	" " . . 225.00	.....	4,567.42
William John Buckminster Memorial (1920),	5,109.41	" . . . 337.28	" " . . 300.00	.....	6,283.55
Burr (1895),	39,565.06	" . . . 275.88	" " . . 225.00	.....	5,160.29
		" . . . 2,136.51	" " . . 1,675.00	.....
		Engin. " . . 250.00	Engin. " . . 250.00	.....	39,776.57

Francis H. Burr 1909 Fund (1913),	10,185.44	Interest . . .	549.99	.....	10,735.43
Ruluff Sterling Choate (1884) .	6,889.23	" . . .	372.00	Coll. Sch. . .	6,936.23
Howard Rogers Clapp Memorial (1919),					
George Newhall Clark (1908), .	7,024.62	" . . .	337.24	" "	7,061.86
Thomas William Clarke (1911), .	11,240.04	" . . .	566.96	" "	11,240.04
Class of 1802 (1870),	5,653.41	" . . .	305.26	" "	5,683.67
" 1814 (1853),	9,598.48	" . . .	518.29	" "	9,666.77
" 1815 (Kirkland) (1852), .	3,632.15	" . . .	196.13	" "	3,632.15
" 1817 (1852),	7,729.11	" . . .	417.37	" "	7,996.48
" 1828 (1882),	5,827.27	" . . .	314.66	" "	5,891.93
" 1835 (1853),	3,664.40	" . . .	197.86	" "	3,664.40
Class of 1841 (1871),	6,103.46	" . . .	329.56	" "	6,158.02
" 1844 (1896),	5,913.74	" . . .	319.36	" "	5,933.10
	14,589.50	" . . .	745.61	" "	
" 1852 (Dana) (1876), . . .	5,872.38	Gifts Cap. . .	45.00	Engin. " "	14,735.11
" 1856 (1885),		Interest . . .	317.41	Coll. " "	5,934.79
Scholarship Fund of the Class of 1863 (1915),	18,413.65	" . . .	994.36	" "	18,508.01
Class of 1867 (1886),	8,772.10	" . . .	473.69	" "	8,895.79
" 1877 (1902),	8,097.74	" . . .	437.29	" "	8,160.03
" 1883 (1900),	6,259.89	" . . .	338.04	" "	6,460.43
Classical Department (Gift), . . .	7,050.42	" . . .	380.70	" "	7,106.12
Clement Harlow Condell (1911),	200.00	" . . .	.....	" "	200.00
Crowninshield (1877),	27,657.83	" . . .	1,493.53	" "	27,951.36
	13,733.27	" . . .	741.58	" "	13,894.85
Amounts carried forward, \$20,100,202.73					\$459,689.63
					\$21,457,714.03

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$20,100,202.73					\$459,689.63	\$21,457,714.03
George and Martha Derby (1881),	6,318.75	Interest . . . \$341.23	Coll. Sch. . . \$300.00	.....	6,359.98	
Julius Dexter (1892),	7,339.48	" . . . 396.31	" " " 350.00	.....	7,385.79	
Orlando W. Doe (1893),	3,602.46	" . . . 194.51	" " " 175.00	.....	3,621.97	
Edda Club (1911),	756.04	" . . . 40.82	" " " .....	.....	796.86	
William Samuel Eliot (1875), . . .	6,569.30	" . . . 354.73	" " " 300.00	.....	6,624.03	
George H. Emerson (1903),	38,427.77	" . . . 2,075.11	" " " 1,400.00	.....	
Joseph Eveleth (1896),	48,394.76	" . . . 2,613.33	B. I. " " 400.00	.....	38,702.88	
			Coll. " " 625.00			
			Engin. " " 400.00			
			Arch. " " 250.00			
			Med. " " 750.00			
			Dent. " " 225.00	.....	48,758.09	
Fall River (1893),	3,082.21	" . . . 166.43	" " " .....	.....	3,248.64	
Farrar (1873),	7,298.97	" . . . 394.15	Coll. " " 350.00	.....	7,343.12	
George Fisher and Elizabeth						
Huntington Fisher (1908),	5,699.55	" . . . 307.80	" " " 250.00	.....	5,757.35	
Lieut. Charles Henry Fiske, 3d (1919),	8,066.00	" . . . 435.57	" " " .....	.....	8,501.57	
Richard Augustine Gambrill						
(1890),	13,308.23	" . . . 718.63	" " " 600.00	.....	13,426.86	
William Gaston (1915),	5,881.43	" . . . 317.57	" " " 225.00	.....	5,974.00	
Wolcott Gibbs (Gift), . . . . .	.....	Gift . . . 250.00	" " " .....	.....	250.00	
Charles Haven Goodwin (1889),	8,631.66	Interest . . . 466.13	" " " 400.00	.....	8,697.79	
William Henry Gove (1920), . . . .	.....	Gift Cap. . . 6,000.00	" " " .....	.....	
		Interest . . . 170.42	" " " .....	.....	6,170.42	

Greene (1863),	5,388.05	Interest . . .	290.95	Coll. Sch. . .	250.00	.....	5,429.00
Joshua Green Memorial (1919), . .	10,387.87	" . . .	560.95		.....	.....	10,948.82
Price Greenleaf (balance),	3,100.28	" . . .	167.40			.....
		Trans. from Fd.	3,000.00	"	"	.....	3,100.28
Thomas Hall (1912),	12,151.80	Interest . . .	656.21	"	"	.....	12,308.01
N. P. Hallowell '61 Memorial (1915),	6,513.80	" . . .	351.76			.....	6,865.56
Selwyn L. Harding Scholarship							
of the Class of 1886 (1911), . .	5,653.40	" . . .	305.26	"	"	.....	5,683.66
Associated Harvard Clubs (Gift), .	.....	Gifts . . .	2,100.00	"	"	.....
				Law	"	.....	350.00
Harvard Club of Boston,	101.88	" . . .	898.12	Coll.	"	.....
" " Buffalo, . . . . .	.....	" . . .	375.00	"	"	.....	.....
" " Chicago, . . . . .	.....	" . . .	1,000.00	"	"	.....	.....
					
" " Cincinnati, . . . . .	.....	" . . .	300.00	Gr. Bus.	"	.....	.....
" " Cleveland, . . . . .	.....	Gift . . .	800.00	Coll.	"	.....	.....
" " Connecticut, . . . . .	.....	" . . .	200.00	"	"	.....	.....
" " " Valley	.....	" . . .	200.00	"	"	.....	.....
" " Delaware,	300.00	" . . .	.....			.....	.....
" " Fitchburg, . . . . .	.....	" . . .	200.00	"	"	.....	300.00
" " Kansas City, . . . . .	.....	" . . .	200.00	"	"	.....	.....
" " Long Island, . . . . .	.....	" . . .	250.00	"	"	.....	.....
" " Lowell, . . . . .	.....	" . . .	600.00	"	"	.....	.....
				Engin.	"	.....	.....
" " Maryland, . . . . .	.....	" . . .	250.00	Coll.	"	.....	.....
" " Michigan,	83.33	" . . .	250.00	"	"	.....	.....
						.....	33.33

Amounts carried forward, \$20,307,259.75 \$676,327.64 \$21,457,714.03

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$20,307,259.75					\$676,327.64	\$21,457,714.03
Harvard Graduates of Milton, . . .	293.33	Gift . . . \$500.00	Coll. Sch. . . \$500.00	.....	293.33	
" Club of Nebraska, . . .	.....	" . . . 100.00	.....	Cr. \$50.00	50.00	
New England Federation of Harvard						
Clubs, . . .	50.00	" . . . 200.00	" . . . 200.00	.....	50.00	
Harvard Club of New Jersey, . . .	.....	" . . . 250.00	" . . . 250.00	.....	.....
" " Rhode Island, . . .	200.00	" . . . 50.00	" . . . 250.00	.....	.....
" " Rochester, . . .	.....	" . . . 240.00	" . . . 240.00	.....	.....
Harvard Club of San Francisco, . .	50.00	..... Law	" . . 50.00	.....	.....
" " St. Louis, . . .	400.00	" . . 300.00	Coll. " . . 300.00	.....	400.00	
" " Santa Barbara, . . .	.....	" . . 400.00	" . . 400.00	.....	.....
" " Seattle, . . .	.....	" . . 300.00	" . . 300.00	.....	.....
" " Somerville, . . .	.....	" . . 100.00	" . . 100.00	.....	.....
" " Western Penn., . .	200.00	" . . 350.00	" . . 350.00	.....	200.00	
Harvard Club of Worcester, . . .	.....	" . . 200.00	" . . 200.00	.....	.....
John Appleton Haven (1902), . .	11,826.55	Interest . . 638.66	" . . 525.00	.....	11,940.21	
William Hilton (1897), . . .	31,246.57	" . . 1,687.34	" . . 275.00	.....	.....
			Med. " . . 450.00	.....	31,983.91	
			Engin. " . . 225.00	.....	.....
Gift for Special Scholarship in Dept. of History . . .	.....	Gift . . . 200.00	Coll. " . . 200.00	.....	.....
Ebenezer Rockwood Hoar (1895), . . .	13,808.89	Interest . . 745.70	" . . 206.25	.....	14,348.34	
Levina Hoar , for the Lincoln Scholarship (1876), . . .	7,495.47	" . . 404.73	" . . 100.00	.....	7,800.20	

Hodges (1878),	15,895.24	Gift	147.50	Coll. Sch. . .	350.00	
		Interest. . .	862.92	Trans. to Lib. Fd.	414.89	16,140.77
Hollis (1722),	7,664.90	"	413.90	Coll. Sch. . .	350.00	7,728.80
Henry B. Humphrey (1890), . .	12,816.67	"	692.12	" " . .	550.00	12,958.79
Franklin Temple Ingraham						
Memorial (1918),	20,552.86	"	1,261.04		.....	21,813.90
Charles L. Jones (1901),	37,445.40	"	2,022.03	" " . .	1,650.00	37,817.43
George Emerson Lowell (1886),	12,836.81	"	693.20	" " . .	600.00	12,930.01
Robert F. Manning Scholarships						
(1915),	11,025.37	"	595.35	" " . .	450.00	11,170.72
Markoe (1903),	6,550.17	"	353.70	" " . .	300.00	6,603.87
Matthews,	1,583.84	"	85.54			
		Rents . . .	1,182.97	" " . .	1,400.00	1,452.35
William Henry Meeker '17 (1917),	4,198.01	Interest. . .	226.69	" " . .	200.00	4,224.70
Merrick (1888),	7,135.63	"	385.34	" " . .	350.00	7,170.97
Morey (1868),	9,762.07	"	527.15	" " . .	450.00	9,839.22
Lady Mowison (1643),	6,862.63	"	370.60	" " . .	325.00	6,908.23
Boston Newsboys' (1906),	3,735.31	"	201.69	" " . .	200.00	3,737.00
Howard Gardner Nichols (1897),	6,591.10	"	355.91		.....	6,947.01
Lucy Osgood (1873),	6,860.61	"	370.49	" " . .	325.00	6,906.10
Palfrey Exhibition (1821),	2,930.09	"	158.22		.....	3,088.31
George Herbert Palmer (1911), . .	2,370.98	"	128.03		.....	2,499.01
George Foster Peabody (1902), . .	4,800.00		.....		.....	4,800.00
James Mills Peirce Scholarship						
(1908),	7,196.32	"	388.58		.....	7,584.90
Stanley Bagg Pennock (1917), . .	5,765.48	"	316.31	" " . .	500.00	5,581.79
Amounts carried forward, \$20,567,410.05						\$941,297.51 \$21,457,714.03

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, June 30, 1921
Amounts brought forward, \$20,567,410.05	9,814.03	Interest	\$529.97	.....	\$941,297.51
Pennoyer (1670),	35,355.79	"	1,909.22	Coll. Sch. . . \$1,200.00	10,344.00
Charles Elliott Perkins Scholar-	5,876.82	"	317.36	"	36,065.01
ships (1909),	11,757.55	"	634.93	"	5,919.18
Rebecca A. Perkins (1869),	2,184.93	"	117.99	"	11,757.55
Philadelphia (1904),	5,642.70	"	304.72	"	2,302.92
Wendell Phillips Mem'l (1895),	4,097.83	"	202.29	Engin. " . . . 200.00	5,672.42
Elinathan Pratt (1912), . . . . .	.....	Gift	250.00	Coll. "	4,100.12
William Reed (1907),	1,173.47	"	350.00	" . . . . .	.....
Scholarship in memory of	2,517.08	Interest	63.34	"	1,236.81
Julian Henry Reinherz	4,111.14	"	135.92	"	2,653.00
Ricardo Prize (balance),	12,164.85	"	221.99	"	4,133.13
Rodger (1883),	17,342.80	"	656.91	"	12,271.76
Henry Bromfield Rogers (1859),	6,667.54	"	936.52	Law "	18,004.32
Nathaniel Ropes, Jr. Scholarship	6,758.66	"	360.07	Coll. "	6,702.61
(1909),	12,735.76	"	364.99	"	6,861.15
James Augustus Rumrill (1909),	10,180.97	"	687.74	Engin. "	12,873.50
Edward Russell (1877),	8,723.30	"	549.77	"	10,730.74
Sales (1893),	18,124.18	"	471.04	"	9,194.34
Saltonstall (1739), . . . . .	.....	" . . . . .	978.70	Coll. "	18,352.88
Leverett Saltonstall (1895), . . . . .	.....	" . . . . .	.....	.....	.....
Mary Saltonstall (1730), . . . . .	.....	" . . . . .	.....	.....	.....
Philip H. Sears (1914), . . . . .	.....	" . . . . .	.....	.....	.....

Sever (1868),	3,529.01	Interest . . .	190.57	Coll. Sch. . .	190.57	.....	3,529.01
Sewall (1696),	13,323.03	" . . .	719.44	" " . .	300.00	.....
Shattuck (1854),	56,852.88	" . . .	3,070.06	Engin. " . .	300.00	.....	13,442.47
Shimmin (1914),	5,493.02	" . . .	296.62	Coll. " . .	2,450.00	.....	57,472.94
Slade (1877),	6,951.15	" . . .	375.35	" " . .	225.00	.....	5,564.64
Dunlap Smith (1903),	4,923.74	" . . .	212.10	" " . .	325.00	.....	7,001.50
Somerville (1921), . . . . .	.....	Gift Cap. . .	5,242.80	.....	.....	.....	5,135.84
Story (1864),	5,229.90	Interest . . .	282.42	" " . .	250.00	.....	5,242.80
Stoughton (1701),	4,695.19	" . . .	237.44	" " . .	186.69	.....	5,262.32
Charles Sumner (gift),	10.20	Gift . . .	200.00	F. & G. Sp. . .	50.75	.....	4,695.19
Swift (1899),	5,168.41	Interest . . .	279.07	Coll. Sch. . .	200.00	.....	10.20
Gorham Thomas (1865),	4,929.01	" . . .	266.17	" " . .	250.00	.....	5,447.48
Toppan (1868),	8,331.61	" . . .	452.63	" " . .	400.00	.....	4,945.18
Townsend (1861),	30,066.71	" . . .	1,623.62	" " . .	1,100.00	.....	8,434.24
William Royall Tyler (1915),	2,739.59	" . . .	147.96	" " . .	100.00	.....	30,590.33
Ira D. Van Duzee (1911),	5,432.85	" . . .	293.38	F. & G. Sp. . .	196.22	.....	2,787.55
Walcott (1855),	6,238.56	" . . .	336.91	Coll. Sch. . .	300.00	.....	5,530.01
Major Harrison Briggs Webster							6,275.47
U.S.A. (1921), . . . . .	.....	Gift Cap. . .	5,000.00	.....	.....	.....	5,000.00
Christopher M. Weld (1899),	11,896.31	Interest . . .	642.38	" " . .	550.00	.....	11,988.69
Gordon Wendell (1913),	3,174.96	" . . .	143.45	" " . .	.....	.....	3,318.41
Jacob Wendell (1899),	6,358.79	" . . .	343.39	" " . .	300.00	.....	6,402.18
Whiting (1874),	13,064.54	" . . .	705.51	" " . .	650.00	13,120.05
Josiah Dwight Whitney (1904),	5,564.33	" . . .	300.46	" " . .	273.97	5,590.82
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Amounts carried forward, \$20,946,663.24							
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. \$1,337,260.27 \$21,457,714.03							

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, June 30, 1921	Totals
Amounts brought forward, \$20,946,663.24					\$1,387,260.27	\$21,457,714.03
Mary L. Whitney (1903),	12,958.34	Interest . . . \$699.73	Coll. Sch. . . \$525.00		13,133.07	
Willard (1907),	11,262.74	" . . . 608.20	" " . . 475.00		11,395.94	
Augustus Woodbury Scholarship (1909),	2,902.62	" . . . 156.76	" " . . 150.00		2,909.38	
Charles Wyman (1905),	11,496.59	" . . . 620.84	" " . . 525.00		11,592.43	
Gift Y.M.C.A. National War Work Council		Gift 200.00	" " . . 200.00			1,376,291.09

BENEFICIARY AND LOAN

Rebecca C. Ames (1903),	\$62,256.44	Interest . . . \$3,361.82				\$63,971.66
		Loans repaid . . 39.90	Coll. B. F. . \$1,686.50			998.81
Nathaniel Appleton (1772), . . .	947.62	Interest . . . 51.19				3,516.09
Frank Bolles Memorial (1894), . .	3,335.95	" . . . 180.14				2,239.41
William Brattle (1717),	2,124.66	" . . . 114.75				
Daniel A. Buckley (1905),	94,303.20	" . . . 9,902.51	" Sch. . . 3,350.00			
			Gr. Bus. " . . 250.00			
			Dent. " . . 300.00			
			F. & G. Sp. . . 2.08		100,303.63	
Gift for William Elwood Byerly						
Loan Fund		Gift 50.00			50.00	
Gift for Chinese students,	107.00				107.00	
Samuel C. Cobb (1916),	37,911.64	Interest . . . 2,047.25	Coll. B. F. . 350.00			
			Engin. " . . 625.00		38,983.89	

[illegible]

Amounts carried forward, \$21,289.252.71

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$21,289,252.71					\$328,768.29	\$22,834,005.12
Edwin A. W. Harlow (1905), . .	17,421.71	Interest . . . \$940.79				
		Loans repaid 455.01	Coll. B. F. . . \$531.06		18,286.45	
Robert Henry Harlow (1908), .	8,457.12	Interest . . . 456.68				
		Loans repaid 6.67			8,920.47	
Harvard Dames Fund,	500.00	Gift . . . 59.15				
		Interest . . . 27.00			586.15	
Edward Holyoke (1743),	608.05	" . . . 32.83			640.88	
Robert Keayne (1659),	3,284.18	" . . . 177.34			3,461.52	
Bertram Kimball (1903),	27,551.44	" . . . 1,487.75	" . . . 1,208.49		27,830.70	
Harry Milton Levy Loan (College) (balance),	743.55	" . . . 27.10				
		Loans repaid 292.25	" . . . 100.00		962.90	
Mary Lindall (1812),	1,903.11	Interest . . . 102.76			2,005.87	
The Loan,		Receipts from				
		Trustees . . . 4,725.00	" . . . 4,725.00			
Susan B. Lyman (1899),	5,988.87	Interest . . . 323.41	Tr. to Coll. Fd. 215.61			
			" " Engin. " 107.80		5,988.87	
Susan B. Lyman Loans (College) (balance),	2,624.68	" . . . 84.19				
		Loans repaid 300.85				
		Trans. from Fd. 215.61	Coll. B. F. . . 50.00		3,175.33	
Anne Mills (1725),	331.47	Interest . . . 17.87			349.34	
Munroe (1880),	15,130.78	" . . . 817.07				
		Loans repaid 128.07			16,075.92	

Dr. Andrew P. Peabody Memorial (1896),

7,802.41	Gift	100.00	
	Interest . . .	421.31	
	Loans repaid	108.75	8,432.47

Scholarship and Beneficiary Money

2,975.08	Interest . . .	85.40	
	Loans repaid .	4,084.35	3,963.00
384.76	Interest . . .	20.79	

Joseph Sewall (1765), Alexander Wheelock Thayer

19,187.52	"	1,036.15	F. & G. Sp. .	360.00	
12,341.93	"	666.47			
471.24	"	25.43			
150,245.96	"	8,113.28			

620,800.52

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PRIZE

Jeremy Belknap, (1921)	Gift Cap. . .	\$1,000.00			
	" Income .	50.00			
	Interest . . .	5.62	Coll. Prize .	\$50.00	\$1,005.62
Helen Choate Bell (1919), . . .	"	364.39	" " . .	275.00	6,837.23
James Gordon Bennett (1893), . .	"	130.95	" " . .	100.00	2,455.92
Philo Sherman Bennett (1905), . .	"	36.88			719.65
Francis Boott (1904),	"	588.60	" " . .	90.00	
			Tr. to Lib. Fd.	398.60	11,000.00
Bowdoin Prizes for Dissertations (1791),	"	2,005.67	Coll. Prize .	637.00	38,510.30
Henry S. Bowers,	Gift	75.00	" " . .	75.00	
Amounts carried forward, \$21,625,103.78					\$60,528.72 \$23,454,805.64

COLLEGE (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense	Principal, June 30, 1921	Totals
Amounts brought forward, \$21,625,103.78					\$60,528.72	\$23,454,805.64
Boylston Prizes for Elocution (1817),	2,641.39	Interest . . . \$142.61	Coll. Prize . . . \$90.00		2,694.00	
Coolidge Debating (1899),	6,115.51	" . . . 330.26	" " . . . 372.01		6,073.76	
Dante,	100.00	" . . . 5.40	" " . . . 50.00		55.40	
Lloyd McKim Garrison Prize and Medal (1904),	3,332.33	" . . . 179.93			3,512.26	
Harvard Club of New Jersey Prizes (balance),	8.24				8.24	
Harvard Club of North China, . . .	100.00	Gift . . . 100.00	" " . . . 100.00		100.00	
Edward Hopkins Gift for "De- turs" (1718) (balance),	2,985.78	Interest . . . 161.24				
		Receipts from				
		Trustees . . . 256.62	" " . . . 317.08		3,086.55	
	1,753.87	Interest . . . 95.00			1,853.87	
George Arthur Knight (1909), . .						
Oliver Morosco Dramatic Prize Play (Gift),		Gift . . . 500.00	" " . . . 500.00			
Patria Society Gift,	50.00				50.00	
Susan Anthony Potter,	450.23	Interest . . . 24.30	" " . . . 175.00		299.53	
Sales (1892),	1,351.79	" . . . 73.01			1,424.80	
John O. Sargent (1889),	3,431.92	" . . . 185.33	" " . . . 100.00		3,517.25	
Winthrop Sargent (1918),	2,724.08	" . . . 147.10			2,871.18	
Richard Sears (Gift),		Gift . . . 100.00	" " . . . 100.00			
George B. Sohler (1890),	7,250.00	Interest . . . 391.50	" " . . . 250.00			
			Tr. to Lib. Fd. 141.50			7,250.00

Charles Sumner (1874),	6,278.74	Interest . . .	339.07	.....	.....	6,617.81
Robert N. Toppan (1894),	4,830.64	" . . .	260.87	Coll. Prize	300.00	4,791.51
Lee Wade II (1915),	1,050.00	" . . .	52.70	" "	50.00	1,052.70
Philip Washburn (1899),	3,006.17	" . . .	162.32	" "	125.00	3,043.49
David A. Wells (1901),	115,672.12	" . . .	6,246.29	Sal. . .	4,793.51	
				" Prize . .	154.81	
Elizabeth Wilder (1911),	2,462.22	" . . .	132.95	Sp. Ex. .	1,297.97	115,672.12
Wister (1911),	1,137.46	" . . .	61.40	.....	.....	2,595.17
				.....	.....	1,198.86
						228,297.23

SUMMER SCHOOL

Sayles, for Summer Course in Geology (1909),	\$11,702.34	Interest . . .	\$631.91	.....	.....	\$12,334.25
Gift for Scholarships for Summer School						
Students	200.00	.....		S. S. Sp. Ex.	\$200.00	.....
						12,334.25

LIBRARY

Anonymous Fund for Library (1913), . .	\$25,000.00	Interest . . .	\$1,350.00	Lib. G. Ex. .	\$1,350.00	.....	\$25,000.00
Edwin Swift Balch, Class of 1878, (1918),	5,142.42	" . . .	230.17	" Books	170.61	.....	5,191.98
Boott Income for Books (balance), . .	375.91	" . . .	20.30				
		Trans. from Fd.	398.60	" "	408.58	.....	386.23
Bowditch (1861),	2,494.13	Interest . . .	134.68	" "	45.88	.....	2,582.93
Bright (balance),	112.77	" . . .	6.10				
		Trans. from Fd.	1,350.00	" "	1,305.91	.....	162.96
William R. Castle (1907),	2,070.51	Interest . . .	108.23	" "	89.93	.....	2,088.81
Amounts carried forward, \$21,838,939.35							\$35,412.91
							\$23,695,437.12

LIBRARY (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, Totals
Amounts brought forward, \$21,838,939.35					\$35,412.91 \$23,695,437.12
Francis James Child Memorial (1897),	28,706.54	Interest . . . \$1,550.39			
		Other receipts 5.00	Lib. Books .	Cr. \$82.88	29,203.69
Robert P. Clapp (1919),	5,192.88	Interest . . . 280.42	" " "	691.68	4,781.62
Fund of the Class of 1851 (1899), .	2,025.24	" " " 109.35	" " "	109.62	2,024.97
Book Fund of the Class of 1881 (1906),	3,782.80	" " " 204.28	" " "		
Edwin Conant (1892),	28,066.32	" " " 1,515.56	" G. Ex. 1,136.67		3,581.74
Constantius (1886),	26,144.38	" " " 1,411.78	Books . 701.16		27,744.05
		" " " 1,411.78	G. Ex. 705.89		
Archibald C. Coolidge and Clarence L. Hay (1910),	6,079.17	" " " 328.27	Books .	872.83	25,977.44
S. Newton Cutler (1912),	1,089.88	" " " 58.86	" " "		
Bayard Cutting Fellowship, . . .	271.49	" " " 14.63	" " "		5,044.91
W. Bayard Cutting, Jr. Bequest (1910),	12,909.03	" " " 697.09	" " "		1,029.25
Horace Davis Bequest (1917), . . .	9,767.94	" " " 527.47	" " "		239.84
Peter P. F. Degrand Bequest(1917),	94,277.07	" " " 5,072.96	" " "		
		" " " 5,072.96	Tr. to Med. Fd. 200.00		12,583.42
Denny (1875),	5,574.34	" " " 301.00	Lib. Books .		10,155.69
Henry Weston Farnsworth Memorial (1917),	31,382.30	" " " 1,694.63	" Sp. Ex. .		98,004.02
Farrar (1871),	6,161.17	" " " 332.69	" Books .		5,286.56
		" " " 332.69			31,706.48
		" " " 332.69			6,019.73

John Hays Gardiner Memorial

(1913),	2,397.21	Interest . . .	129.44	Lib. Books .	76.72	.....	2,449.93
Department of German (1915), . . .	3,187.96	" . . .	172.15	" " .	16.10	.....	3,344.01
Price Greenleaf (balance for books),	296.35	Trans.from Fd.	1,000.00	" " .	1,297.54	Dr. 1.19	.....
Price Greenleaf (for general expenses), . . . . .	.....	" " .	15,083.63	" G. Ex.	15,083.63	.....	.....
Charles Gross Memorial (1910), .	1,885.01	Interest . . .	101.79	" Books .	123.20	.....	1,863.60
George Silsbee and Ellen Sever	633.99	" . . .	34.23			.....
Hale Fund (balance),	11,249.14	Trans.from Fd.	326.10	" " .	742.56	.....	251.76
Edward H. Hall (1913), . . . . .	.....	Interest . . .	607.45	" " .	1,804.61	.....	10,051.98
Frederic Hilborn Hall Memorial	5,282.59	" . . .	285.28	" " .	286.34	.....	5,281.53
(1916),	3,520.86	" . . .	190.13	" " .	78.13	.....	3,632.86
Haven (1844),	10,155.03	" . . .	548.37	" " .	660.40	.....	10,043.00
Hayes (1885),	6,109.57	" . . .	329.94	" " .	609.33	.....	5,830.18
Hayward (1864),	418.10	Trans.from Fd.	414.89			.....
R. M. Hodges (balance), . . . . .	.....	Sales . . .	104.62			.....	937.61
Hollis (1774),	2,485.49	Interest . . .	134.19	" " .	125.13	.....	2,494.55
Homer (1871),	2,277.28	" . . .	122.96	" " .	149.72	.....	2,250.52
George Schunemann Jackson (1920), . . . . .	.....	Gift Cap. . .	39,065.34			.....
Jarvis (1885),	501.90	Interest . . .	1,312.82	" " .	82.35	.....	40,395.81
Richard Mather Jopling (1919),	528.74	" . . .	27.11	" " .	28.47	.....	500.54
Horatio King Fund (1913), . . .	10,074.90	" . . .	28.56	" " .	14.56	.....	542.74
		" . . .	544.05	" " .	37.50	.....
				Annuities .	402.99	.....	10,178.46
Amounts carried forward, \$22,161,374.02							\$393,745.40
							\$23,695,437.12

LIBRARY (continued)

<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$22,161,374.02				\$393,745.40	\$23,695,437.12
Kittredge Anniversary Fund (1913),	Interest . . . \$238.63	Lib. Books . \$288.93		4,369.04	
Lane (1863),	" . . . 299.64	" " . . 550.74		5,297.73	
George C. Lodge and Joseph Trumbull Stickney Memorial Book Fund (1911),	" . . . 203.90	" " . . 281.79		3,698.11	
Lowell (1881),	" . . . 1,809.81	" " . . 2,506.30		32,818.04	
Francis Cabot Lowell (1911), . .	" . . . 654.64	" " . . 1,292.46		11,485.17	
James Jackson Lowell (1917), . .	" . . . 1,107.38	" " . . 1,356.27		20,258.37	
Wainwright Merrill Memorial (1919),	" . . . 160.98	" " . . 187.47		3,043.39	
Minot (1870),	" . . . 3,308.09	" " . . 4,308.51		60,260.93	
Elkan Naumburg Fellowship Income	" . . . 98.22	" " . . 1,808.80		108.62	
George Nichols (1921),	Gift Cap. . . 5,000.00			5,044.33	
	Interest . . . 50.33	" " . . 6.00		9,014.18	
Charles Eliot Norton (1905), . .	" . . . 491.13	" " . . 571.86		7,743.71	
Lucy Osgood (1873),	" . . . 422.98	" " . . 512.11		7,594.34	
Mary Osgood (1860),	" . . . 441.61	" " . . 1,024.87		5,931.71	
Francis Parkman Memorial (1908),			Cr. \$18.60	25,156.34	
George F. Parkman (for books) (1909),	" . . . 277.06	" " . . 1,463.19		1,216.58	
B. Osgood Peirce (1916),	" . . . 1,363.82	" " . . 51.96		608.53	
James Mills Peirce Bequest (bal.),	" . . . 65.01	" " . . 40.65			
	" . . . 33.26	" " . .			

Charles Elliott Perkins Memorial,	308.37	Interest . . .	16.63	Lib. Books .	135.94	.....	189.06
Hugo Reisinger (1916),	5,106.78	"	275.77	" " . .	12.21	.....	5,370.34
Sales (1892),	3,916.67	"	211.52	" " . .	169.02	Cr. 31.07	3,928.10
Salisbury (1858),	6,748.19	"	364.39	" " . .	1,835.96	.....	5,276.62
Stephen Salisbury (1907),	5,120.00	"	276.48	" G. Ex. .	276.48	.....	5,120.00
Sever (1878),	21,072.56	"	1,137.94	Lib. Books	1,990.53	.....	20,219.97
Shapleigh (1801),	3,968.67	"	214.33	" " . .	214.67	.....	3,968.33
Robert Gould Shaw (1916), . . .	51,107.14	"	2,759.78	" Sp. Ex. .	2,500.00	.....	51,366.92
Amey Richmond Sheldon (1909),	300,006.22	"	16,200.32	" G. " . .	12,381.68	.....	303,824.86
Clement Lawrence Smith (1916),	1,209.49	"	65.28	" Books . .	2.70	.....	1,272.07
George B. Sohler Income for							
Books (balance),	109.36	Trans. from Fd.	141.50	" " . .	154.57	.....	96.29
Strobel Memorial, Class of 1877							
(1909),	3,456.97	Interest . . .	186.68	" " . .	152.45	.....	3,491.20
Strobel Memorial, Siam (1909), . .	2,446.61	"	132.14	" " . .	221.31	.....	2,357.44
Subscription for Library (1859), . .	10,558.85	"	570.18	" " . .	579.95	.....	10,549.08
Sumner (1875),	38,705.25	"	2,090.07	" " . .	2,583.25	.....	38,212.07
Kenneth Matheson Taylor (1899),	5,251.95	"	233.61	" " . .	429.21	.....	5,106.35
Elizabeth Torrey Bequest (1896),	1,287.41	"	69.50	" " . .	201.21	.....	1,155.70
Daniel Treadwell (1885),	12,149.66	"	656.10	" " . .	390.64	.....	12,087.07
				G. Ex. .	328.05	.....
John Harvey Treat Book Fund							
(1911),	42,275.68	"	3,252.70	" Books .	3,126.83	.....	42,401.55
Ichabod Tucker (1875),	5,512.85	"	265.20	" " . .	523.50	.....	5,254.55
20th Mass. Regiment of Volunteer							
Infantry (1910),	1,050.95	"	56.75	" " . .	41.68	.....	1,066.02

Amounts carried forward, \$22,886,889.50 \$1,119,708.11 \$23,695,437.12

LIBRARY (continued)

<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$22,886.889.50	Interest . . . \$14.47			\$1,119,708.11	\$23,695,437.12
Income for Books (balance), . . . 267.99	Trans. from Fd. 300.00	Lib. Books . \$513.33		69.13	
Walker (1875), 16,402.25	Interest . . . 885.71	" . . 1,409.88		15,878.08	
Ward (1858), 5,517.30	" . . . 297.92	" . . 408.76		5,406.46	
Julian Palmer Welsh Memorial (1910), 3,097.30	" . . . 167.24	" . . 26.98		3,237.56	
Evert Jansen Wendell (1919), . . . 10,361.70	Gift Cap. . . 799.00	" . . 607.78	Cr. \$799.00	10,343.60	
J. Huntington Wolcott (1891), . . . 20,554.03	Interest . . . 589.68	" . . 1,251.84		20,412.11	
Chauncey Wright (1884), . . . 1,382.43	" . . . 1,109.92	" . . 74.63		1,457.06	
Eben Wright (1883), 100,000.00	" . . . 5,400.00	" G. Ex. . 5,400.00		100,000.00	
Sundry gifts for books (balances), . . 7,880.81	Gifts . . . 2,261.05	" Books . 5,732.22		4,557.42	
Duplicate money, 85.53	Interest . . . 147.78	" " . 1,052.32		331.60	
Fines,	Sales . . . 1,298.39	" " . 489.18		518.37	
Gifts for equipment of the Library, . . 246.04	Fines . . . 1,007.55	" Sp. Ex. . 49.31		196.73	
Special Gifts for expenses of the Library, . . . . .	.....			
Gift for Printing Harvard Library Notes, Library,	Gifts . . . 3,173.00	" G. " . 2,681.00	Cr. 492.00	.....
	" . . . 900.00				
	Interest . . . 10.30				
	Other receipts	" Sp. " . 869.62		115.68	
Gift for equipment of rest room at Library, 26.63	.....			26.63	1,282,258.54

ENGINEERING SCHOOL

Gordon McKay Endowment (1909), \$2,876,997.27	Gift Cap. . . \$148,287.83	Cap. Loss	\$24,578.34	
	Interest . . 152,486.17	Coll. Sal.	9,056.67	
		Gr. Bus. Sal.	5,000.00	
		Engin. Sal. &		
		G. Ex	123,429.50	
Professorship of Engineering (1847), . .		B. I. G. Ex.	15,000.00	\$3,000,706.76
Edward Whitney Bequest (1916), . .	40,805.73	Engin. Sal.	2,203.52	40,805.73
Harvard Engineering Society Scholarship (1908) (balance),	12,142.00	" "	655.67	12,142.00
		Gift Cap. . .	200.00	
	3,664.63	Interest . .	204.39	
		Loans repaid	37.20	3,906.22
Hennen Jennings Scholarship (1898),	14,717.34	Interest . .	794.72	15,012.06
Lawrence Scientific School Loans Repaid Fund,	18,790.12	" "	500.00	
		Loans repaid	1,014.66	
		" "	1,257.00	20,586.78
Henry Weidemann Locke Scholarship. Gift (balance),	121.05	" "	100.00	21.05
Susan B. Lyman Loan Fund (L.S.S.), . .	673.92	Trans. from Rd.	107.80	781.72
Stuart Wadsworth Wheeler (1898),	12,887.13	Interest . .	695.90	13,583.03
Gift Ernest B. Dane — Research in Sanitary Engineering,	934.84	" "	25.50	669.01
Gift for Laboratory of Metallurgical Chemistry,	13.97			13.97
Amounts carried forward, \$26,034,459.51				\$3,108,228.33 \$24,977,695.66

ENGINEERING SCHOOL (continued)

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, Totals</i>
Amounts brought forward, \$26,034,459.51					\$3,108,228.33 \$24,977,695.66
Gifts for Research in Cryogenic Engineering,		Gifts \$3,800.00			.....
		Other receipts 2,250.00 Engin. Sp. Ex. \$6,050.00			1,231.42
		Interest . . . 47.36			.....
Summer School Mining Camp,
Gift Harvard Club of Washington		Gift 600.00 " Sch. 600.00			.....
Scholarship,		Trans. from Fd. 50.00 " B. F. 50.00			.....
Price Greenleaf Aid,					3,109,459.75

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

Business School Endowment (1912), .	\$65,220.00	Interest . . . \$3,521.88	Gr. Bus. G. Ex. \$3,521.88	.....	\$65,220.00
Edmund Cogswell Converse					
Professorship of Banking (1912), . .	135,674.90	" . . . 7,326.45	" " Sal. . 7,000.00		136,001.35
James J. Hill (1915),	125,000.00	" . . . 6,750.00	" " G. Ex. 6,750.00	.....	125,000.00
James J. Hill Professorship of Transportation (1915),	135,408.88	" . . . 7,312.08	" " Sal. . 7,000.00	.....	135,720.96
Isidor Straus Memorial (1912), . .	10,048.78	" . . . 542.64	" " " 542.64	.....	10,048.78
Deficit Fund,		Gifts 11,325.00	" " G. Ex. 11,325.00	.....	.....
Anonymous Loan Fund (1921), . . .		Gift Cap. . . . 5,000.00			
		Interest . . . 77.65			5,077.65
Business School Loan Fund,	1,020.45	" 21.98			677.62
Business School Alumni Loan Fund, .		Loans repaid 1,470.19	" " B. F. 1,835.00	.....	650.00
		Gifts 650.00			.....

[illegible]

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION (continued)

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$26,511,918.51					\$458,826.11	\$28,087,155.41
Gifts for Printing Courses,		Gift . . . \$1,756.77	Gr. Bus. Sp. Ex. \$1,756.77			
Gifts for Collection of Problem Material,		Gifts . . . 9,200.00				
		Interest . . . 55.55				
		Other receipts 1,600.39	" " 2,972.93		7,883.01	
Gift for Books and other Material on Scientific Management,	2.15		" " 2.15			
Gift Alvan T. Simonds for Research		Gift . . . 4,627.50	" " 4,643.42		27.50	
		Interest . . 43.42	" " 16.40		.36	
Gift of John R. Simpson for Books, Gift of Joseph E. Sterrett, Books on Accounting,	16.76		" " 72.33		115.13	493,852.11
	187.46					

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

Revere Family Memorial (1913), .	\$21,956.86	Interest . . . \$1,185.68				\$22,050.69
		Loans repaid . 28.00	Arch. Sp. Ex. \$1,119.85			
Nelson Robinson, Jr. (1899), . .	969,258.87	Interest . . . 52,339.99	" Sal. & G.			
			Ex. . . . 40,112.49			
			" Fell. . . 2,227.50			
			Arch. Deficit			
			1920-21 (part) 4,451.63		974,807.24	
Arthur Rotch (1895),	25,000.00	" . . . 1,350.00	Arch. Sal. .		25,000.00	
Gurdon Saltonstall (1901), . . .	60,000.00	" . . . 3,240.00	" " 3,240.00		60,000.00	

[illegible]

DIVINITY SCHOOL

New Endowment (1879),	\$71,677.02	Interest. . .	\$3,870.56	Div. G. Ex. .	\$3,870.56	. . . . .	\$71,677.02
Oliver Ames (1880),	17,000.00	"	918.00	" "	918.00	. . . . .	17,000.00
Hannah C. Andrews (1836), . . .	525.00	"	28.35	" "	28.35	. . . . .	525.00
Daniel Austin (1880),	1,115.26	"	60.21	" "	60.21	. . . . .	1,115.26
Adams Ayer (1869),	1,000.00	"	54.00	" "	54.00	. . . . .	1,000.00
Joseph Baker (1876),	15,275.00	"	824.85	" "	824.85	. . . . .	15,275.00
Beneficiary money returned (balance),	339.00	"	. . . . .	"	. . . . .	. . . . .	339.00
Rushion Dashwood Burr (1894),	4,687.46	"	253.10	"	. . . . .	. . . . .	4,940.56
Bussey Professorship (1862), . . .	37,583.74	"	2,029.54	" Sal. . .	2,029.54	. . . . .	37,583.74
Joshua Clapp (1836),	2,177.95	"	117.61	" G. Ex. .	117.61	. . . . .	2,177.95
Edwin Conant (1892),	5,000.00	"	270.00	" "	270.00	. . . . .	5,000.00
Dexter Lectureship (1810),	25,544.37	"	1,379.38	" Sal. . .	1,379.38	. . . . .	25,544.37
Frothingham Professorship (1892),	58,703.14	"	3,169.96	" "	3,169.96	. . . . .	58,703.14
Abraham W. Fuller (1847),	1,050.00	"	56.70	" G. Ex. .	56.70	. . . . .	1,050.00
Amounts carried forward, \$27,908,524.72		.	. . . . .	. . . . .	. . . . .	. . . . .	\$241,931.04 \$29,745,801.77

DIVINITY SCHOOL (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, June 30, 1921	Totals
Amounts brought forward	\$27,908,524.72				241,931.04	\$29,745,801.77
Lewis Gould (1852),	911.34	Interest . . .	\$49.19 Div. G. Ex. .	\$49.19	911.34	
Louisa J. Hall (1893),	6,281.64	" . . .	339.23		6,620.87	
Hancock Professorship,	6,008.43	" . . .	324.43 " Sal. . .	324.43	6,008.43	
Composed of these Funds:—						
Thomas Hancock (1765),						
Stephen Sewall (1762),						
Charles L. Hancock (1891), . . .	152,369.76	" . . .	9,804.21 Coll. G. Ex. .	4,128.64	152,369.76	
Haven (1898),	5,000.00	" . . .	270.00 " Div. Sal. . .	5,675.57	5,000.00	
Samuel Hoar (1857),	1,050.00	" . . .	56.70 " G. Ex. .	270.00	1,050.00	
Hollis Professorship of Divinity, . .	34,517.60	" . . .	1,863.97 " " " " . .	56.70	34,517.60	
Composed of these Funds:—						
William Dummer (1762),						
Daniel Hinchman (1742),						
Thomas Hollis (1721),						
Jonathan Mason (1798),						
James Townsend (1738),						
Henry P. Kidder (1881),	10,000.00	" . . .	540.00 " G. Ex. .	540.00	10,000.00	
Henry Lienow (1841),	9,184.69	" . . .	495.99 " " " " . .	495.99	9,184.69	
Caroline Merriam (1867),	1,050.00	" . . .	56.70 " " " " . .	56.70	1,050.00	
Parkman Professorship (1814), . .	16,015.81	" . . .	864.86 " Sal. . .	864.86	16,015.81	
Francis Greenwood Peabody Pro- fessorship (1917),	25,377.67	" . . .	1,370.41 " " " " . .	1,370.41	25,377.67	
John W. Quinby (1888),	733.53	" . . .	39.64		773.17	

Abby Crocker Richmond (1881),	1,000.00	Interest . . .	54.00	Div. G. Ex. .	54.00	
John L. Russell (1890),	1,000.00	"	54.00	" " "	54.00	1,000.00
William B. Spooner (1890), . . .	10,000.00	"	540.00	" " "	540.00	1,000.00
Thomas Tileston of New York Endowment (1879),	40,000.00	"	2,160.00	" " "		10,000.00
Mary P. Townsend (1861),	5,250.00	"	283.50	" " "	2,160.00	40,000.00
Winthrop Ward (1862),	2,100.00	"	113.40	" " "	283.50	5,250.00
Winn Professorship (1877),	66,037.84	"	3,566.05	" Sal.	113.40	2,100.00
Augustus Woodbury Bequest (1909),	1,038.20	"	56.05	" G. Ex. .	3,066.05	66,537.84
Gifts for Library purposes,	1,756.29	Gifts . . .	1,500.00			1,038.20
Gift for expenses of publishing Harvard Theological Studies,	520.00	Interest . . .	70.25	" Sp. " .	1,500.00	1,826.54
		"	12.76	" " "	532.76	639,562.96

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Robert Charles Billings Prize (1904),

Abner W. Buttrick (1880),	\$3,237.58	Interest . . .	\$174.85	Div. Prize .	\$200.00	\$3,212.43
Thomas Cary (1820),	14,138.71	"	763.51	" B. F. .	700.00	14,202.22
George Chapman (1834),	6,096.55	"	329.24	"		6,425.79
Joshua Clapp (1839),	3,118.73	"	168.43	" Sch. . .	90.32	3,196.84
Jackson Foundation (1835),	5,043.81	"	272.38	" " "	154.83	5,161.36
J. Henry Kendall (1863),	16,327.82	"	881.71	" " "	1,000.00	16,209.53
Nancy Kendall (1846),	6,212.62	"	335.50	"		6,548.12
John C. Kimball (1912),	3,885.86	"	209.85	"		4,095.71
William Pomroy (1835),	575.16	"	31.05	"		606.21
	1,110.54	"	59.99	" B. F. .	45.00	1,125.53

Amounts carried forward, \$28,365,474.90

60,783.74
\$80,446,148.47

LAW SCHOOL

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, Totals
Amounts brought forward, \$28,365,474.90					\$30,446,148.47
Law School Endowment (1918), . . .	6,498.07	Gift Cap. . . \$149.15	Law G. Ex. . . \$355.75		\$6,647.22
		Interest . . . 355.75	" Sp. " . . 1,100.00		10,635.51
Ames (1910),	11,134.27	" . . . 601.24	" " . . 108.00		2,000.00
Samuel Ames Bequest (1916), . .	2,000.00	" . . . 108.00			
James and Augusta Barnard Law (1912),	106,605.01	" . . . 5,431.78	Cap. Loss . . 5,779.76		101,089.80
Bemis Professorship (1879),	117,346.06	Gift Cap. . . 264.55	Law Sp. Ex. . 5,431.78		120,349.42
Andreas Blume Bequest (1919), .	511.66	Interest . . . 6,336.69	" Sal. . . 3,333.33		511.66
Bussey Professorship (1862), . . .	27,870.83	" . . . 27.65	G. Ex. . . 27.65		27,870.83
Byrne Professorship of Administrative Law (1917),	161,517.99	" . . . 1,505.03	Sal. . . 1,505.03		162,739.96
James C. Carter Professorship (1906),	107,325.02	" . . . 8,721.97	" " . . 7,500.00		107,325.02
Dane Professorship (1829),	18,305.62	" . . . 5,795.55	" " . . 5,795.55		18,305.62
Royall Professorship (1781),	8,340.81	" . . . 988.52	" " . . 988.52		8,340.81
Ezra Ripley Thayer Teaching Fellowship (1915),	26,832.66	" . . . 450.41	" " . . 450.41		27,181.64
Weld Professorship (1882),	94,994.97	" . . . 1,448.98	" " . . 1,100.00		94,994.97
Gift for general purposes		" . . . 5,129.73	" " . . 5,129.73		
Gift for salary of Professor or Instructor in Patent Law		Gifts . . . 1,060.00	" G. Ex. . . 1,060.00		
		Gift . . . 12,636.00	" Sal. . . 3,500.00		9,314.25
		Interest . . . 178.25			697,306.71

Gift of James Munson Barnard

and Augusta Barnard (balance),
John L. Cadwalader (1914), . .
 Law School Book (1882),
 Law School Library (1898),
 Gift for books on criminology . . .

\$569.50	Interest . . .	\$10.60	Law Sp.	Ex.	\$337.56	.....	\$242.54
20,000.00	" . . .	1,080.00	" "	"	1,080.00	.....	20,000.00
47,021.25	" . . .	2,539.13	" "	"	2,539.13	.....	47,021.25
100,000.00	" . . .	5,400.00	" "	"	5,400.00	.....	100,000.00
.....	Gift . . .	50.00	" "	"	50.00	.....	.....
							167,263.79

SCHOLARSHIP, BENEFICIARY, AND PRIZE

James Barr Ames Loan (1904), .
James Barr Ames Prize (1898), .
Addison Brown Prize (1914), . .
William Cheney Brown, Jr.

Scholarship (1919),
¹⁵**John L. Cadwalader** Memorial
 Scholarship, founded by the Harvard
 Law School Ass'n of New York City
 (1920),

James Coolidge Carter Loan
 (1906),

\$122.34	Loans repaid	\$228.73	.....	\$351.07
6,078.84	Interest . . .	328.27	.....	6,407.11
3,265.68	" . . .	176.36	3,442.04
2,517.09	" . . .	112.92	Law Sch. . .	2,530.01

5,781.94	" . . .	312.23	" "	250.00	5,844.17
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15,732.71

Samuel Phillips Prescott Fay,
 1798, Fund and Scholarship (1907), .

George Fisher Scholarship (1906), .
John Foster (balance),
Shelton Hale Memorial (1921), . .

6,050.95	Interest . . .	326.75	" Sch. . .	225.00	.....	6,152.70
4,061.02	" . . .	219.29	" "	261.02	.....	4,019.29
208.47	" . . .	11.23	.....	.....	.....	219.70
.....	Gift Cap. . .	4,390.58	.....	.....	.....	4,390.58

Amounts carried forward, \$29,266,167.66

\$49,744.37 \$31,310,718.97

LAW SCHOOL (continued)

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$29,266,167.66					\$49,744.37	31,310,718.97
Robert Darrah Jenks Scholarship						
in Railroad Law (1918),	7,738.77	Interest . . . \$400.64		.....	8,139.41	
Langdell (1909),	28,469.31	" . . . 1,537.33	Law Sch. . . \$1,150.00	.....	28,856.64	
Harry Milton Levy Loan (Law)						
(balance),	192.82	Loans repaid	229.82	.....	422.64	
M. J. and Jennie Mack Loan						
(1916),	1,168.14	Interest . . . 46.72		.....	1,214.86	
Research Scholarship (Gift),	250.00	Gift 350.00	" " . . 500.00	.....	100.00	
Scholarship Money Returned,	290.78	Loan repaid . 5,583.00	" B. F. . . 3,744.42	.....	2,129.36	
Joshua Montgomery Sears, Jr.						
Memorial Fund for Prizes (1912),	38,049.70	Interest . . . 1,974.70	" Prize . . 1,600.00	.....	38,424.40	
Gift for Scholarship from Y.M.C.A. . . . .	.....	Gift 50.00	" Sch. . . . 50.00	.....	.....
Gift for Foreign Graduate Scholarship	.....	" . . . . 200.00	" " . . . 200.00	.....	.....	129,031.68

GRADUATE SCHOOL OF EDUCATION

Charles William Eliot Fund,
 Composed of the following Funds: —
 Walter F. Baker (1909),
 William H. Baldwin, Jr.
 (1906),
 Andrew Bigelow (1898),
 Stanton Blake (1889),

\$80,908.53	Interest . . . \$3,822.93	Gr. Ed. G. Ex \$3,822.93	.....	\$80,908.53
2,000.00	" 94.50	" " " " 94.50	.....	2,000.00
4,950.00	" 233.89	" " " " 233.89	.....	4,950.00
5,000.00	" 236.25	" " " " 236.25	.....	5,000.00

Harvard Endowment (1919), 491,655.00

Trans. from
Harv. End. Fd.

Unrestricted . 247,433.00

Gifts Cap. . 1,140.00

Interest . . . 40,546.35

" . . . 472.50

" . . . 364.70

" . . . 1,567.37

" . . . 1,417.50

" . . . 167.03

" . . . 1,104.23

" . . . 17,101.05

Theodore Lyman (1898), . . 10,000.00

Robert C. McIlwain (1917), 7,718.49

Henry S. Nourse (1904) (part), 33,171.82

William Perkins (1888), . . . 30,000.00

Ezekiel Rogers (1701), . . . 3,535.00

John L. Russell (1889), . . . 23,370.03

Richard Black Sewall (1919), 247,433.00

Isaac Sweetser (1894), . . . 46,913.13

Seth Turner (1883), 5,000.00

Charles W. Hubbard (1917), . . 10,024.10

Gift Mrs. Edward H. Harriman
for special expenses 6,121.06

Gift for general uses, 2,407.56

Gift for Salaries,

Gifts for instruction of the blind

Fine Money — Education Dep't Library, 27.19

Amounts carried forward, \$30,352,562.09

740,228.00

10,000.00

7,718.49

33,171.82

30,000.00

3,535.00

23,370.03

242,746.50

46,913.13

5,000.00

10,056.51

66.39

1,207.04

3,500.00

515.00

27.19

1,246,898.63

\$32,686,649.28

MEDICAL SCHOOL

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1921 Totals</i>
Amounts brought forward, \$30,352,562.09					\$32,686,649.28
Harvard Medical Alumni (1907),	12,826.56	Interest . . . \$674.90			\$13,501.46
Anonymous Fund in the Department of Theory and Practice (1906), . . .	10,363.78	" . . . 559.66	Med. Sal. . . \$559.66		10,363.78
Edward Austin (Bacteriological Laboratory) (1899),	11,320.63	" . . . 611.33	" Sp. Ex. 493.83		11,438.13
Edward M. Barringer (1881), . . .	30,271.54	" . . . 1,634.69	" G. " 1,134.69		30,271.54
			" Sch. 500.00		5,000.00
Francis Bartlett Free Bed (1914),	5,000.00	" . . . 270.00	H. H. G. Ex. 270.00		100,000.00
Robert C. Billings (1900), . . .	100,000.00	" . . . 5,000.00	Med. " " 3,800.00		10,040.21
			" Sp. " 1,200.00		2,252.53
J. Ingersoll Bowditch (1889), . .	10,038.81	" . . . 542.11	" " " 540.71		5,157.96
Boylston Fund for Medical Books (1800),	2,173.26	" . . . 117.34	" " " 38.07		68,104.59
Brinckerhoff (1911),	5,157.96	" . . . 278.53	" Sal. . . 278.53		89,010.13
John B. and Buckminster Brown Endowment (1896),	67,459.21	" . . . 3,645.38	" " " 3,000.00		6,312.15
Bullard Professorship of Neuro-pathology (1906),	89,271.49	" . . . 4,820.63	" " " 4,527.69		109,351.15
			" Sp. Ex. 554.30		
Herbert L. Burrell (1914), . . .	6,235.46	" . . . 336.69	" Sal. . . 260.00		
Memorial Cancer Hospital Endowment (1910),	125,817.48	" . . . 6,794.12	H. H. G. Ex. 23,260.45		

Memorial Cancer Hospital New Laboratory Fund (1917),

36,346.90	Gifts . . .	115,025.00			
	Interest . . .	2,036.96	H. H. Sp. Ex.	35,054.30	118,354.56

Memorial Cancer Hospital Proctor

Maintenance (1912),

Memorial Cancer Hospital New Endowment (1921),

Memorial Cancer Hospital Research

Fund,

Colburn (1919),

T. Jefferson Coolidge for Cancer

Research (1915),

Caroline Brewer Croft (1899), . .

Dr. John C. Cutter Bequest (1910),

Peter P. F. Degrand (balance), .

Joseph R. De Lamar (1919), . .

Dr. Henry Isaiah Dorr Chair of

Research and Teaching in Anaes-

thetics and Anaesthesia (1917), . .

Thomas Dwight Memorial (1912),

Calvin and Lucy Ellis (1899),

Amounts carried forward, \$33,654,044.44

5,000.00	"	200.00	"	G.	"	5,200.00	
	Gift Cap. . .	500.00					500.00
11,458.99	Interest . . .	458.36	"	Sp.	"	11,917.35	
104,462.35	"	5,640.95					110,103.30
2,000.00	"	108.00	"	G.	"	108.00	2,000.00
92,025.00	"	4,969.35	"	"	"	4,969.35	92,025.00
16,442.09	"	887.81	Med. Sp.	"	"	472.92	
	Royalties . .	26.95	F. & G. Sp.			562.28	16,321.65
155.71	Grant from						
	1920-21 income	200.00	Med. Sp. Ex.			301.05	54.66
	Gift Cap. . .	777,772.46					
	Interest . . .	133,918.81	"	Sal.	"	54,983.36	
	Other receipts	351.25	"	Sp. Ex.		35,501.03	2,860,138.43
100,000.00	Interest . . .	4,250.00	Annuities .			4,150.00	Cr. \$100.00
13,086.10	"	706.64	Med. Sp. Ex.			775.40	100,000.00
405,988.73	Cap. Gain	13,215.00					13,017.34
	Interest . . .	23,312.22	"	Sal.	"	22,146.61	420,369.34
							\$4,193,687.91
							\$32,686,649.28

MEDICAL SCHOOL (continued)

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$33,654,044.44					\$4,193,687.91	\$32,686,649.28
William Endicott (1915), . . .	25,000.00	Interest . . \$1,350.00	H. H. G. Ex. \$1,350.00		25,000.00	
George Fabyan Foundation for Comparative Pathology (1906), . .	244,058.87	" . . 13,179.20	Med. Sal. . . 7,300.00 " Sp. Ex. 700.00		249,238.07	
George Fabyan Foundation Spe- cial (1910),	13,520.21	" . . 730.08	" " 700.00		13,550.29	
Charles F. Farrington (1909), .	54,776.77	" . . 2,957.96	" Sal. . . 1,100.00 " Sp. Ex. 1,089.78		55,544.95	
Lawrence Carteret Fenno (1911), Lawrence Carteret Fenno Me- morial Free Bed Fund (1912), . .	20,000.00	" . . 1,080.00	H. H. " 1,080.00		20,000.00	
Samuel E. Fitz (1884),	5,000.00	" . . 270.00	" G. " 270.00		5,000.00	
Flattery Research (1915),	1,836.08	" . . 99.14	Med. " 99.14		1,836.08	
George W. Gay Lecture Fund Medi- cal Ethics (1917),	11,900.00	" . . 2,419.81	H. H. Sp. " 750.00		13,569.81	
Rebecca A. Greene (1911), . . .	1,162.82	" . . 62.80			1,225.62	
	55,745.80	Gift Cap. . . 125.00				
		Interest . . 3,016.12	Med. G. " 3,016.12		55,870.80	
F. B. Greenough (Surgical Re- search) (1901),	6,000.00	" . . 324.00	" Sp. " 324.00		6,000.00	
George Higginson Professorship (1902),	110,990.87	" . . 5,993.51	" Sal. . . 5,993.51		110,990.87	
John Homans Memorial (1906), .	52,414.49	" . . 2,830.36	" " 2,000.00		53,244.85	
Franklin H. Hooper Memorial Free Bed Fund (1911),	5,000.00	" . . 270.00	H. H. G. Ex. 270.00		5,000.00	

Amos Lawrence Hopkins Free Bed Fund (1913),	5,000.00	Interest . . .	270.00	H. H. G. Ex.	270.00	.....	5,000.00
Silas Arnold Houghton Assistant Professorship in Bacteriology (1917),	25,216.79	" . . .	1,361.72	Med. Sal. . .	1,250.00	.....	25,328.51
George S. Hyde (1913),	50,020.34	" . . .	2,701.08	" G. Ex.	2,701.08	.....	50,020.34
Jackson Professorship of Clinical Medicine (1859),	69,192.65	" . . .	3,736.42	" Sal. . .	3,736.42	.....	69,192.65
Henry Jackson Endowment (1903),	107,159.38	" . . .	5,786.59	" " . .	2,032.26	.....
Hamilton Kuhn Memorial (1908),	193,229.15	" . . .	10,434.37	" Sp. Ex.	9,600.00	.....	108,603.40
Walter Augustus Lecompte Pro- fessorship of Otology (1907), . . .	57,638.54	" . . .	3,112.50	" Sal. . .	312.65	.....	193,750.87
Elliot C. Lee Bequest (1921), . . .	.....	Gift Cap. . .	50,750.00	" Sp. Ex.	157.29	.....	57,638.54
Maria D. Lockwood Memorial (1915),	50,728.58	Interest . . .	2,739.37	H. H. G. "	2,739.37	.....	50,750.00
Harriet Newell Lowell (1907), .	464.03	.....	.....	Med. "	464.03	.....	50,728.58
James Ewing Mears Bequest (1920),	.....	Gift Cap. . .	9,295.01	" " "	.....	.....	.....
Medical Library (1872),	3,021.79	Interest . . .	478.55	H. H. "	478.55	.....	9,295.01
James C. Melvin Fund for Tropi- cal Medicine (1918),	54,164.22	" . . .	163.19	" " "	.....	.....	3,184.98
George von L. Meyer Bequest (1919),	2,500.00	" . . .	135.00	" " "	.....	.....	57,089.08
Charles S. Minot (1915),	2,579.97	" . . .	139.32	" " "	.....	.....	2,500.00
Julia M. Moseley (1915),	23,250.00	" . . .	875.00	" " "	875.00	.....	2,719.29
Amounts carried forward, \$34,905,615.79							23,250.00

Amounts carried forward, \$34,905,615.79 \$5,518,810.50 \$32,686,649.28

Gardiner Hubbard Scudder (1914),	10,075.21	Interest . . .	544.05	Annuities . .	555.21	.....	10,064.05
Henry Francis Sears Fund for Pathology (1907),	35,000.00	" . . .	1,890.00	Med. Sal. . .	721.47	.....
Frederick C. Shattuck (1916), .	143,639.64	" . . .	7,756.56	" Sp. Ex.	1,168.53	.....	35,000.00
		Other receipts	911.95	" Sal.	6,175.00	.....
George C. Shattuck (1853), . . .	102,162.51	Interest . . .	5,831.80	" Sp. Ex.	2,094.98	.....	144,038.17
James Skillen Memorial Fund (1907),	11,640.22	" . . .	628.56	" Sal. . .	5,831.80	.....	102,162.51
Francis Skinner (1914),	43,561.74	Gift Cap. . .	110.63	"		.....
		Interest . . .	2,322.59	" G. Ex. . .	2,322.59	.....	12,268.78
James Stillman Professorship (1902),	119,646.67	" . . .	6,460.94	" Sal. . .	6,460.94	.....	43,672.37
Surgical Laboratory (1897),	5,000.00	Gift	2,000.00	"		.....	119,646.67
Mary W. Swett (1884),	15,765.11	Interest . . .	270.00	" Sp. Ex. . .	1,440.31	.....	5,829.69
Samuel W. Swett (1884),	20,000.00	" . . .	851.31	" G. " . .	851.31	.....	15,765.11
William H. Thorndike (1895), .	6,700.60	" . . .	1,080.00	" " " . .	1,080.00	.....	20,000.00
Quincy Tufts (1879),	2,000.00	" . . .	361.85	" " " . .	.....	.....	7,062.45
Zoe D. Underhill Research (1912),	10,041.76	" . . .	108.00	" " " . .	108.00	.....	2,000.00
Warren Fund for Anatomical Mu- seum (1848),		" . . .	542.27	" Sp. " . .	584.03	.....	10,000.00
James C. White Bequest (1916), .	15,889.43	" . . .	858.01	"	.....	.....	16,747.44
Edward Wigglesworth Pro- fessorship of Dermatology (1907), .	5,878.02	" . . .	317.41	"	.....	.....	6,195.43
	62,346.78	" . . .	3,366.74	" Sal. . .	3,366.74	.....	62,346.78
Amounts carried forward, \$36,798,606.12							\$7,468,935.59 \$32,686,649.28

MEDICAL SCHOOL (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, Totals
Amounts brought forward, \$36,798.606.12					\$7,468,935.59 \$32,686,649.28
Charles Wilder (1900),	93,180.61	Gift Cap. . . \$3,307.15			
		Cap. Gain . . 300.00			
		Interest . . . 5,137.20	Med. Sal. . . \$5,137.20		96,787.76
Henry Willard Williams (1893),	63,116.36	" . . . 3,408.27	" " . . 3,408.27		63,116.36
William J. and Georgianna B. Wright (1920),		Gift Cap. . . 108,840.20			
		Interest . . . 4,676.75			113,516.95
Morrill Wyman Medical Research (1915),	133,807.93	" . . . 6,994.52	" " . . 6,754.52		
		" . . . 1,310.00	" Sp. Ex. . . 240.00		133,807.93
Gifts for salaries,	1,700.00	Gifts	" Sal. . . 2,250.00		560.00
		"	" Sp. Ex. . . 200.00		
		"	" Sal. . . 2,425.00		
Harvard Medical Alumni Gifts,					
Aesculapian Club Gift — Medical School,	259.29	.....	" Sp. Ex. . . 17.00		242.29
Gift for Recreation Grounds,	381.38	.....			381.38
Dept. of Anatomy — Gift for salary of artist,		Gift	" " . . 625.00		
Dept. of Anatomy — Gift for current expenses,		"	" " . . 1,681.13		
Dept. Bacteriology — Gift, A.B.C.	1.25	.....			1.25
Dept. Bacteriology — Gift H. S. F., Assistant for Dr. Bovie,	4.77	.....			4.77

Dept. of Bacteriology — Gift Dr. W.

S. Bigelow, 189.10 Med. Sp.Ex. . 133.54 55.56

Dept. Comparative Pathology — Gift for

Investigation of Milk Infections, . . 884.54 Interest . . . 35.38 919.92

Dept. of Comparative Pathology — Gift

of Mass. Society for Promoting Agriculture, 2,373.63 “ 39.76 “ “ “ 758.95 1,654.44

Dept. of Comparative Physiology — Gift

of Committee of the Permanent Charity Fund, Inc., 522.90 “ “ “ 474.50 48.40

Dept. of Diseases of Nervous System —

Gift of **Miss Katherine E. Bullard,** 6.13 “ “ “ 6.13

Dept. of Diseases of Nervous System —

Gift Dr. **W. N. Bullard** for study of Pellagra, 295.44 “ “ “ 295.44

Dept. of Diseases of Nervous System —

Gift for research in problems relating to epilepsy, Gift 1,000.00 “ “ “ 272.07 727.93

Dept. of Industrial Hygiene — Expenses

of Instruction and Investigation in Industrial Hygiene, 98,985.57 Gifts 20,750.00

Dept. of Industrial Hygiene — Study of

Health Conditions in Dept. Stores, . . 3,467.62 Gifts 4,700.00

Health Conditions in Dept. Stores, . .

Interest . . . 5,040.71 “ “ “ 34,784.87 91,595.16

Health Conditions in Dept. Stores, . .

Other receipts 1,603.75 “ “ “ 7,759.15 447.67

Health Conditions in Dept. Stores, . .

Interest . . . 39.20 “ “ “

Health Conditions in Dept. Stores, . .

Gifts 39.20 “ “ “

Health Conditions in Dept. Stores, . .

Interest . . . 39.20 “ “ “

Health Conditions in Dept. Stores, . .

Gifts 39.20 “ “ “

Health Conditions in Dept. Stores, . .

Interest . . . 39.20 “ “ “

Health Conditions in Dept. Stores, . .

Gifts 39.20 “ “ “

Health Conditions in Dept. Stores, . .

Interest . . . 39.20 “ “ “

Amounts carried forward, \$37,197,782.64 \$7,972,809.49 \$32,686,649.28

MEDICAL SCHOOL (continued)

<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, Totals</i>
Amounts brought forward, \$37,197,782.64			\$7,972,809.49	\$32,686,649.28
Dept. of Industrial Hygiene—Gift for Publication of Journal of Industrial Health,	761.62 Gifts \$5,500.00 Sales 4,669.41	Med. Sp. Ex. \$10,931.03		
Dept. of Industrial Hygiene—American Institute of Lead Manufacturers Fund, Library—Duplicate Book Fund,	229.92 Receipts . . 13,858.86 Sales 608.10	“ “ “ “ “ “ “ “		9,977.14 119.78 50.00
“ Gift for Medical School Library “ Gifts for Charles B. Porter Hall,	51.96 Receipts Sales	“ “ “ “ “ “ “ “		51.96 16.00
“ Alpha Omega Alpha Gift,	66.24 Receipts	“ “ “ “		66.24
Dept. of Ophthalmology—Gift, Lab- oratory of Physiological Optics,	111.22 Receipts	“ “ “ “		111.22
Dept. Pathology — Gift Rockefeller Institute for Medical Research,	49.22 Receipts	“ “ “ “		49.22
Dept. of Pathology—Morrill Wyman Gift,	272.12 Receipts	“ “ “ “		272.12
Dept. of Pediatrics—Gift for income of Thomas Morgan Rotch Pro- fessorship of Pediatrics,	14,720.98 Receipts	“ “ “ “		8,953.32
Dept. of Pharmacology — Gift of U. S. Interdepartmental Social Hygiene Board,				

[illegible]

MEDICAL SCHOOL (continued)

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$37,244,908.52					\$8,020,088.05	\$32,686,649.28
Repayments to Comparative Pathological Laboratory,	1,416.23	“ . . \$1,508.75	Med. Sp. Ex. \$1,969.14	.....	1,038.43	
		Interest . . .				
Repayments to Dept. of Medicine Laboratory, . . . . .	.....	Receipts . .	“ “ 25.90	.....	.....
Repayments to Neuropathological Laboratory, . . . . .	.....	“ . .	“ “ 41.70	.....	.....
Repayments to Pathological Laboratory, . . . . .	.....	“ . .	“ “ 13.00	.....	.....
Repayments to Pharmacological Laboratory, . . . . .	.....	“ . .	“ “ 134.00	.....	.....
Repayments to Physiological Laboratory, . . . . .	.....	“ . .	“ “ 854.72	.....	.....
Repayments to Surgical Laboratory, . . . . .	.....	“ . .	“ “ 109.98	.....	.....
Aesculapian Club Gift,	118.16	.....	.....	.....	118.16	
Gift of the Committee of the Permanent Charity Fund Incorporated — research in nature, cause and treatment of disease,	16,035.76	Interest . . .	“ “ 478.60	.....	15,824.36	
Anonymous Gift for Investigation of Diabetes Mellitus,	67.38	.....	.....	.....	67.38	
Gifts for Instruction in Military Medicine,	1,081.60	“ . . .	.....	.....	1,124.86	
Gift for use of Infantile Paralysis Commission,	162.68	.....	.....	.....	162.68	
Gifts for salaries, Huntington Hospital,	1,000.00	Gifts . . . : 2,000.00	H. H. “ “ 3,000.00	.....	.....

Gift for current expenses, Hunting-
ton Hospital,
Gift for assistant to Dr. **Bowie**—Hun-
tington Hospital,
Gift Research in Genetics under direc-
tion of Cancer Commission,
Gift for salary of technician—
Huntington Hospital,
Gift of **Franklin W. Moulton** to be
expended under direction of Social
Service Worker—Cancer Commission,
Gift for Harvard War Loan Fund, . .

Gift for research on thyroid function and
thyroid disease,
Gift of **Dr. W. N. Bullard** for re-
search at Medical School,
Gift for addition to salary,

Anonymous Gift for Teaching Fel-
lowships in Histology and Embry-
ology (balance),
Edward Hickling Bradford (1918),
Arthur Tracy Cabot Fellowship
(1913),

Amounts carried forward, \$37,321,409.31

Gifts	16,725.00	H. H. G. Sp.	16,725.00	
250.00		" Sp. "	250.00	
320.00				320.00
"	1,980.00	" "	1,980.00	
325.21	50.00	"		
1,188.75	236.36	"		375.21
Interest	37.77			
Loans repaid	229.03	Med. B. F. .	135.00	1,556.91
1,000.00	12.96	" Sp. Ex.	768.60	244.36
Gift	1,000.00			1,000.00
"	1,000.00	" "	1,000.00	
				8,041,870.40
FELLOWSHIP				
Interest	\$1,363.82	Med. Sal. .	\$1,250.00	\$8.32
"	1,526.63	" "	1,041.68	25,369.79
28,270.73				28,755.68
Amounts carried forward, \$37,321,409.31				\$54,133.79 \$40,728,519.68

MEDICAL SCHOOL (continued)

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$37,321,409.31					\$54,133.79	\$40,728,519.68
James Jackson Cabot (1906), . .	13,782.03	Interest . . . \$744.23			14,526.26	
Charles Follen Folsom Memorial (1908),	14,531.10	"	Med. Sal. . .		14,740.77	
John R. Kissinger (1911), . . .	4,712.39	"	254.45		4,966.84	
William O. Moseley, Jr. (1912), .	93,786.52	"	" Fell. . .	2,312.50	96,538.52	
George Cheyne Shattuck Memorial (1891),	6,913.48	"	373.30		7,286.78	
Henry P. Walcott (1910), . . .	33,367.62	"	1,801.87		35,169.49	
Charles Eliot Ware Memorial (1891),	7,067.03	"	381.62		7,448.65	
John Ware Memorial (1891), . . .	6,956.61	"	375.68		7,332.29	242,143.39
SCHOLARSHIP						
Gordon Bartlett (1919),	\$10,198.50	Interest . . . \$435.69	Med. Sch. . .	\$345.00	\$10,289.19	
Lucius F. Billings (1900), . . .	5,840.10	"	"	250.00	5,905.46	
John White Browne (1918), . . .	20,756.04	"	"	900.00	20,996.85	
David Williams Cheever (1889), .	6,440.96	"	"	275.00	6,513.77	
Loan Fund of the Medical Class of 1879,	708.04				708.04	
Cotting Gift (1900),	3,734.12	"	"	150.00	3,785.76	
Frederic Shurtleff Coolidge (1916),	25.75				25.75	
Orlando W. Doe (1893),	3,478.96	"	"	150.00	3,516.83	
Horace Putnam Farnham (1918),	12,657.44	"	"	450.00	12,890.92	

**Foster Income for Medical Students, .
George Haven (1913),
Lewis and Harriet Hayden**

(1894),
William Otis Johnson (1911), . .
Claudius M. Jones (1893), . . .
Alfred Hosmer Linder (1895), . .
James Ewing Mears, M.D., . . .

Joseph Pearson Oliver (1904), . .
Charles B. Porter (1897),
Francis Skinner (1905),

Charles Pratt Strong (1894), . . .
Isaac Sweetser (1892),
John Thomson Taylor (1899), . .
Edward Wigglesworth (1897), . .
Anonymous Gift for Loans
Anonymous Gifts for Loans to Medical

Students,
Harriet P. Keith Loan Fund, . . .

	Trans. from Fd.	Med. Sch.	150.00	.....
.....	Interest . . .	"	1,364.32	25,341.95
25,077.63	"	"	1,100.00	.....
6,510.71	"	"	275.00	6,587.30
4,574.33	"	"	200.00	4,621.33
7,474.10	"	"	325.00	7,552.70
6,179.81	"	"	275.00	6,238.53
.....	Gift Cap. . .	"	4,647.51	.....
9,922.31	Interest . . .	"	200.00	4,686.78
6,419.74	"	"	425.00	10,033.10
5,206.02	"	"	275.00	6,491.42
Loans repaid	"	"	300.00	5,583.64
5,816.58	Interest . . .	"	250.00	5,880.70
7,828.25	"	"	325.00	7,925.96
6,011.57	"	"	250.00	6,086.22
6,222.88	"	"	275.00	6,283.92
150.00	.....	"	.....	150.00
380.01	.....	"	.....	380.01
.....	Gift	"	500.00	500.00

168,976.13

PRIZE

Boylston (1803),	Interest . . .	\$342.36	.....	\$6,682.79
M. Douglas Flattery (1918), . .	"	525.00	Med. Prize . .	7,556.30
.....	.....	.....	\$10.00 Cr.	14,239.09
Amounts carried forward, \$37,677,980.37	.....	.....	.....	\$41,153,878.29

DENTAL SCHOOL

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$37,677,980.37						\$41,153,878.29
John D. Bryant (1912),	12,506.84	Interest . . .	\$675.38 Dent.Sp.Ex.	\$337.69	\$12,844.53	
Dental School Endowment (1880), . .	9,437.87	" . . .	509.65 " G. "	509.65	9,437.87	
Dental School Endowment (1911), . .	27,365.00	Gifts Cap. .	925.00			
		Interest . . .	1,507.36 " "	1,507.36	28,290.00	
Dental School Endowment of the Class of 1886 (1911),	50.00	" . . .	2.70 " "	2.70	50.00	
Dental School Endowment of the Class of 1888 (1914),	100.00	" . . .	5.40 " "	5.40	100.00	
Dental School Endowment of the Class of 1891 (1917),	100.00	" . . .	5.40 " "	5.40	100.00	
Dental School Endowment of the Class of 1892 (1918),	100.00	" . . .	5.40 " "	5.40	100.00	
Dental School Endowment of the Class of 1893 (1918),	100.00	" . . .	5.40 " "	5.40	100.00	
Dental School Endowment of the Class of 1895,		Gift	200.00			
		Interest . . .	9.07 " "	9.07	200.00	
Dental School Endowment of the Class of 1901 (1918),	25.00	" . . .	1.35 " "	1.35	25.00	
Dental School Endowment of the Class of 1904 (1918),	25.00	" . . .	1.35 " "	1.35	25.00	
Dental School Endowment of the Class of 1907 (1914),	10.00	" . . .	.54 " "	.54	10.00	

Dental School Endowment of the Class
of 1909 (1910),
Harvard Dental Alumni Endow-
ment (1906),

50.00 Interest . . . 2.70 Dent. G. Ex. 2.70 50.00

6,345.33 Gift Cap . . . 50.00

Gift Income . 10.00

Interest . . . 342.63 " " 352.63

" . . . 545.40 " " 545.40

10,100.00

16,693.85 Gift Cap . . . 4,425.00

Interest . . . 1,001.71 " " 1,001.71

5,000.00 " . . . 270.00 " " 270.00

10,238.88 " . . . 552.90 " " 552.90

10,511.86 " . . . 567.65 " " 567.65

500.00 " . . . 27.00 " " 27.00

5,000.00 " . . . 270.00 " " 270.00

Gift Cap. . . 2,325.00

Interest . . . 120.58 " Sch. 120.58

10,325.00 " . . . 557.55 " G. Ex. 557.55

23,000.00 " . . . 1,242.00 " " 1,242.00

Gifts . . . 1,532.50 " Sp. " 670.69

85.00 " " 85.00

Amounts carried forward, \$37,825,650.00 156,709.13

\$41,310,587.42

Helen Collamore (1916),
Maria Antoinette Evans Bequest
(1919),

Caroline S. Freeman Bequest
(1920),

Norman H. George Bequest (1919),
Katherine C. Pierce Endowment
(1914),

Proctor Bequest (1910),

Mary F. Russell Bequest (1916), .

Eugene Hanes Smith Scholarship,
Joseph Warren Smith, Jr. Me-
morial (1909),

Henry C. Warren Endowment
(1889),

Gifts for Expenses of Visiting Com-
mittees

Gift for Scholarship

Amounts carried forward, \$37,825,650.00

156,709.13

\$41,310,587.42

BUSSEY INSTITUTION

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, Totals</i>
Amounts brought forward, \$37,825,650.00					
Bussey Institution Endowment (1913), 133,304.00		Interest . . . \$7,198.42	B. I. G. Ex. \$7,198.42		\$41,310,587.42
Anna C. Ames Memorial Scholarship (1918), 10,892.31		" . . . 588.17	" Sch. 300.00	133,304.00	
Mrs. William H. Bliss (1917), . . 54,756.78		" . . . 2,756.88	" " 1,125.00		11,180.48
Woodland Hill (1895), 20,658.86		" . . . 1,000.00	F. & G. Sp. 359.48		56,388.66
Priscilla Clark Hodges Scholarship (1907), 4,679.40		" . . . 252.67	B. I. Sch. 112.50	Cr. \$640.52	20,658.86
Gifts for salaries,		Gift . . . 1,200.00	" Sal. 1,200.00		4,819.57
Gift for Forestry Dept., 352.38	
Gifs expenses experimental garden in Plant Genetics and additional furnishings for dormitory,		Interest . . . 36.77	" Sp. Ex. 150.30		352.38
Gift for Forestry Department Laboratory,		1,244.37
		Interest . . . 10.00	.....		10.00
					227,958.32

ARNOLD ARBORETUM

Arnold Arboretum (1899), \$125,650.00	Interest . . . \$6,785.10	A. A. G. Ex. \$6,785.10			\$125,650.00
Arnold Arboretum Endowment (1917), 318,029.17	Gifts Cap. . . 6,322.50				
	Interest . . . 17,384.20	" " " 17,384.20			324,351.67
James Arnold (1872), 166,534.24	" . . . 8,992.84	" " " 8,543.20			166,983.88
Arboretum Construction Gifts (balance), 99,704.76	" . . . 5,384.07				
	Arb. Surplus 19,835.85	" " " 5,384.07			119,540.61

Robert Charles Billings (1904), . .	12,500.00	Interest . . .	709.00	A. A. G. Ex.	709.00	12,500.00
William L. Bradley (1897), . . .	21,040.00	" . . .	1,136.16	" " Sp. "	1,136.16	21,040.00
Bussey Fund for the Arnold Arboretum (1903),	2,308.06	" . . .	124.63	" " G. "	124.63	2,308.06
Helen Collamore Bequest (1916),	2,525.00	" . . .	136.35	" " " "	136.35	2,525.00
Maria Antoinette Evans Bequest (1919),	16,693.85	Gift Cap. . .	4,425.00			
Massachusetts Society for Promoting Agriculture (1911),		Interest . . .	1,001.71	" " " "	1,001.71	21,118.85
Mary Robeson Sargent (1919), . .	9,000.00	Gift	500.00			
Francis Skinner (1906),	5,000.00	Interest . . .	499.39	" " " "	499.39	9,500.00
Francis Skinner, Jr. Bequest (1915),	20,000.00	" . . .	270.00	" " " "	270.00	5,000.00
Sears Gift for Library,	10,000.00	" . . .	1,080.00	" " " "	1,080.00	20,000.00
Bayard and Ruth S. Thayer (1911),	227.44	" . . .	540.00	" " " "	540.00	10,000.00
Edward Whitney (1912),	25,000.00	" . . .	125.78	" " Sp. "	125.78	101.66
Gifts for general purposes,	1,487.63	" . . .	1,255.00	" " G. "	1,255.00	25,000.00
Gift for expenses of trip of E. H. Wilson to Australasia,	845.00	" . . .	80.35	" " Sp. "	70.00	1,497.98
Gifts for purchase of Bussey Land for Arnold Arboretum,	10,362.40	" . . .	21,175.00	" " G. "	21,175.00	.....
Amounts carried forward, \$38,898,569.18			22.72	" " Sp. "	148.39	719.33
			414.50		.....	10,776.90
						878,613.94
						\$42,417,159.68

OBSERVATORY

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Principal, Suspense June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$38,898,569.18					\$42,417,159.68
Advancement of Astronomical Science					
(1901),	3,324.62	Interest . . . \$179.55			
		Obs. Surplus 4,654.91	Obs. Sp. Ex. \$1,240.26		\$6,918.82
Advancement of Astronomical Science					
(1902),	20,000.00	Interest . . . 604.00	" G. "		20,000.00
Amory Astronomical Fund (1916), .	63,684.15	" . . . 3,438.94	" " "		67,123.09
Thomas G. Appleton (1884), . . .	5,000.00	" . . . 270.00	" " "		5,000.00
J. Ingersoll Bowditch (1889), . . .	2,500.00	" . . . 135.00	" " "		2,500.00
Uriah A. Boyden (1887),	185,000.00	" . . . 9,990.00	" Sp. " 9,872.08		185,117.92
Draper Memorial (1917),	30,000.00	Gift . . . 4,000.00	" " "		30,000.00
J. Rayner Edmands Bequest (1911),	1,014.21	Interest . . . 1,620.00	" " "		1,014.21
Charlotte Harris (1877),	2,000.00	" . . . 54.76	" G. " 54.76		2,000.00
Haven (1898),	45,000.00	" . . . 108.00	" " "		45,000.00
James Hayward (1866),	21,000.00	" . . . 2,430.00	" " "		21,000.00
Observatory Endowment (1882), . . .	50,000.00	" . . . 1,134.00	" " "		50,000.00
Paine Professorship (1886),	52,600.00	" . . . 2,700.00	" " "		55,440.40
Robert Treat Paine (1886),	273,932.07	" . . . 2,840.40	" " "		273,932.07
Edward B. Phillips (1849),	111,652.24	" . . . 14,792.33	" " "		111,652.24
Edward C. Pickering Bequest		" . . . 6,029.21	" Sal.		
(1921),		Gift Cap. . . 2,819.98			
		Interest . . . 17.12			
Josiah Quincy (1866),	11,374.10	" . . . 613.12			2,837.10
					11,967.22

David Sears (1845),	28,849.62	Interest . . .	1,557.90	Obs. G. Ex.	778.95	29,628.57
David Sears (1916),	25,000.00	" . . .	1,350.00	" " "	1,350.00	25,000.00
Augustus Story (1871),	13,380.00	" . . .	722.52	" " "	722.52	13,380.00
Gift for publishing Henry Draper Catalogue, . . . . .	.....	Gift . . .	2,025.00			
Gift for publishing lunar photographs, .	42.35	Interest . . .	30.12	" Sp. "	.....	2,055.12
Gift for Charles S. Hinchman Fellowship,	500.00	" . . .	20.00	" Fell.	453.17	66.83
E. C. Pickering Fellowship, . . .	429.07	" . . .	571.84	" "	500.00	500.91
Gift to defray cost of publication of Vol. 91, Observatory Annals,	101.50	.....	.....	.....	101.50	962,236.00

BLUE HILL METEOROLOGICAL OBSERVATORY

Waldo E. Forbes (1917),	\$6,000.00	Interest . . .	\$324.00	B.H.Obs.G.Ex.	\$324.00	\$6,000.00
A. Lawrence Rotch Bequest (1913),	52,197.34	" . . .	2,818.64	" " "	4,940.98	50,075.00
Aimée Sargent Bequest (1918), .	25,000.00	" . . .	1,350.00	" " "	1,350.00	25,000.00
Gifts for current expenses, . . . . .	.....	Gifts . . .	1,500.00	" Sal.	1,500.00	81,075.00
Amounts carried forward, \$39,928,130.45	.....	.....	.....	.....	.....	\$43,460,470.68

MUSEUM OF COMPARATIVE ZOOLOGY

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Principal, Suspense June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$39,928,130.45					
Alexander Agassiz Bequest (1910),	99,500.00	Interest . . . \$3,213.00			\$43,460,470.68
		Allowance from Univ. . .	2,160.00 M.C.Z. G. Ex.	\$5,373.00	\$99,500.00
Alexander Agassiz Bequest for Publications (1910),	90,095.26	Interest . . .	4,865.12	Sp. " 1,849.57	93,110.81
Agassiz Memorial (1875),	297,933.10	" . . .	16,088.38	G. " 16,088.38	297,933.10
George R. Agassiz (1911),	50,000.00	" . . .	2,700.00	" " 2,700.00	50,000.00
George R. Agassiz Special (1912),	50,000.00	" . . .	2,700.00	" " 2,700.00	50,000.00
Louis Cabot (1917),	5,563.83	" . . .	300.46	Sp. " 100.33	5,763.96
Virginia Barret Gibbs Scholar-ship (1892),	7,541.56	" . . .	407.27	" " 325.00	7,623.83
Gray Fund for Zoological Museum (1859),	50,000.00	" . . .	2,700.00	G. " 2,700.00	50,000.00
Sturgis Hooper (1865),	108,476.69	" . . .	5,857.75	Coll. Sal. 5,857.75	108,476.69
Humboldt (1869),	8,963.81	" . . .	484.05	M.C.Z. Sp. Ex. 370.00	9,077.86
Willard Peele Hunnewell (1901),	5,605.49	" . . .	302.67	" " 302.67	5,605.49
Permanent (1859),	117,469.34	" . . .	6,343.33	G. " 6,343.33	117,469.34
Teachers' and Pupils' (1875),	7,594.01	" . . .	410.08	" " 410.08	7,594.01
Maria Whitney (1907),	6,981.64	" . . .	377.03	Sp. " 253.54	7,105.13
Maria Whitney and James Lyman Whitney (1912),	585.73	Gifts Cap. . .	66.44	" " 25.25	661.10
		Interest . . .	34.18	" " . . .	909,921.32

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

Henry W. Haynes Bequest (1912),	\$1,000.00	Interest . . .	\$54.00	P. M. G. Ex. .	\$54.00	.....	\$1,000.00
Hemenway Fellowship (1891), . .	13,565.41	" . . .	732.51	" Sp. "	625.00	.....	13,672.92
Mary Hemenway Fund for Archaeology (1910),	46,387.79	" . . .	2,504.95	" " "	3,232.10	.....	45,660.64
Francis Cabot Lowell Memorial (1912),	1,000.00	" . . .	54.00	" G. "	54.00	.....	1,000.00
Peabody Building (1866),	28,355.56	" . . .	1,531.84	" " "	1,531.84	.....	28,355.56
Peabody Collection (1866),	47,335.10	" . . .	2,557.10	" " "	2,557.10	.....	47,335.10
Peabody Professor (1866),	47,335.10	" . . .	2,557.10	" " "	2,557.10	.....	47,335.10
Frederic Ward Putnam (1915),	235.90	" . . .	12.74				
		Sales	66.00		.....		314.64
Thaw Fellowship (1890),	30,211.30	Interest . . .	1,233.98	" Fell.	1,212.99	.....	30,232.29
Henry C. Warren Exploration (1899),	11,184.16	" . . .	603.94	" Sp. Ex.	1,186.17	.....	10,601.93
Susan Cornelia Warren (1902),	5,000.00	" . . .	270.00	" " "	270.00	.....	5,000.00
Robert C. Winthrop Scholarship (1895),	7,483.44	" . . .	404.08	" Sch.	325.00	.....	7,562.52
Huntington Frothingham Wolcott (1891),	21,278.36	" . . .	1,149.01	" Sp. Ex.	697.79	.....	21,729.58
Gifts for current use,	1,386.84	Gifts	2,057.00				
		Interest . . .	22.25				
		Other receipts	269.52	" " "	3,197.39	.....	538.22
Amounts carried forward, \$41,096,199.87							260,338.50
							\$44,630,730.50

SEMITIC MUSEUM

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1921</i>	<i>Totals</i>
Amounts brought forward, \$41,096,199.87						\$44,630,730.50
Hecht (1921),		Gift Cap. . . \$5,000.00			\$5,108.00	
		Interest . . . 108.00			3,898.43	
		" . . . 116.37	Sem. M. Sp. Ex. \$126.25			
Gifts for Semitic Museum,	3,908.31					
Gifts for Semitic Museum collections, balance,	636.55		" " 329.80		306.75	
Gift for copying Cuneiform tablets, .	126.99				126.99	
Gifts for Excavations in Palestine, . .	1,359.08	" . . . 14.69	" " 1,275.07		98.70	9,538.87

GERMANIC MUSEUM

Germanic Museum (1909),	\$10,013.52	Interest . . . \$540.76	Ger. Mus. G. Ex. \$540.76		\$10,013.52	
Germanic Museum Building (1908), .	35,453.28	" . . . 1,914.46	F. & G. Sp. 39.65		37,328.09	
Germanic Museum Endowment (1909),	78,150.15	" . . . 4,220.10	Ger. Mus. Sp. Ex. 2,803.88		79,566.37	
Emperor William (1906),	26,335.00	" . . . 1,422.09	" G. " 1,422.09		26,335.00	
Hugo Reisinger Bequest (1916), .	55,768.27	" . . . 3,011.47			58,779.74	
Gift for work of art,	281.86				281.86	
Gifts for Collections for Germanic Museum,	322.52				322.52	212,627.10

WILLIAM HAYES FOGG ART MUSEUM

William Hayes Fogg (1892), . .	\$50,443.55	Interest . . . \$2,723.98	Fogg M.G.Ex. \$2,762.26	.....	\$50,405.27
Henry S. Bowers Prize,	75.00	"	"	.....	75.00
Gray Fund for Engravings (1858), .	16,609.46	"	" Sp. " 1,676.70	.....	15,829.65
William M. Prichard (1898), . .	15,147.09	"	" " " 832.23	.....	15,132.80
John Witt Randall (1892),	30,080.43	"	" " " 1,704.75	.....	30,000.00
Hervey E. Wetzel (1919),	88,539.17	"	" " " 4,781.10	.....	66,965.27
Gifts for Museum Equipment and Emergency Fund,	901.51	Gifts 5,025.00	"	" " " 26,355.00	.....
Gifts from the Society of Friends of the Fogg Art Museum,	1,309.69	Other receipts .63	"	" " " 6,527.01	Dr. \$599.87
Gift for purchase of Goya painting, . .	.....	Gifts 4,665.00	"	" " " 6,005.87	.....
Fund for excavation in Greek Lands, .	.....	Interest 31.18	"	" " " 6,000.00	.....
Gift for purchase of copy of Lockoff Fresco,	250.00	Gift 6,000.00	"	" " " 317.08	9,746.25
Gifts for Teaching Equipment,	76.64	Gifts 10,000.00	"	" " " 2,950.00	.....
Amounts carried forward, \$41,511,987.94		Interest 63.33	"	" " " 742.87	233.77
		Gift 2,700.00	"	" " " 188,388.01	
		Gifts 900.00	"	" " " 45,041,284.48	

Fund of the Class of 1834 (1887),				CLASS FUNDS							
"	"	"	"	Interest . . .	\$2,774.10	Interest . . .	\$143.30				\$2,917.40
"	"	"	"	"	3,892.63	"	186.01	F. & G. Sp.	\$344.57		3,734.07
"	"	"	"	"	4,092.48	"	220.97				4,313.45
"	"	"	"	Gift Cap. . . .	13,448.58	Gift Cap. . . .	667.46				
"	"	"	"	Interest . . .	5,132.37	Interest . . .	747.14				14,863.18
"	"	"	"	Gift Cap. . . .		Gift Cap. . . .	64.00				
"	"	"	"	Interest . . .		Interest . . .	308.32				
"	"	"	"	Other receipts	2,167.70	Other receipts	167.63				5,672.32
"	"	"	"	Interest . . .	3,220.12	Interest . . .	117.07				2,284.77
"	"	"	"	"		"	173.88	"	167.33		3,226.67
Arnold Arboretum Building Gifts, . .				GIFTS FOR CONSTRUCTION							
Boston Lying-In Hospital, . .				Interest . . .	\$1,441.29	Interest . . .	\$57.65				\$1,498.94
Gift for the construction and maintenance of a Library and Reading Room for the Chemical Dept. In memory of Frederic Saltonstall Gould, class of 1875,				Gift		Gift	300,000.00	F. & G. Sp.	300,000.00		
Gift for flag pole on Stadium in memory of Dr. Milton Bettman,				"		"	10,000.00				
Gray Herbarium Gift for Construction, Gifts for New Gymnasium Building, . .				Interest . . .		Interest . . .	77.81				10,077.81
Semitic Building (balance),				562.43		.....		"	2,602.60	Dr. \$2,040.17	
George Smith Bequest (1904), . .				1,043.63		"	41.75	Gray Herb. Sp. Ex.	166.81		918.57
Gifts for Hospital—Department of Tropical Medicine,				12,516.34		"	500.65				13,016.99
				460.13		"					460.13
				15,182.60		"	819.83	F. & G. Sp. .	600.00		15,402.43
				6,273.31		"	250.93				
Amounts carried forward, \$41,799,135.98											6,524.24
											47,899.11
											\$45,341,786.93

37,011.86

SUNDRY

	<i>Principal, July 1, 1920</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1921</i>	<i>Principal, June 30, 1921 Totals</i>
Amounts brought forward, \$41,799,135.98					
Edward Austin (1899), 522,529.41		Interest . . \$28,216.57	Coll. Sal. . . \$17,712.50		
		Loans repaid 985.50	" Fell. . . 2,200.00		
			" Sch. . . 3,000.00		
			" B. F. . . 500.00		
			Arch. Sch. . 1,050.00		
			Gr. Ed. " . 1,200.00		
			Med. " . . 1,500.00		\$524,568.98
Bright Legacy (1880), 50,000.00		Interest . . 2,700.00	Trans. to Coll. Sch. } 1,050.00		
			Trans. to Engin. Sch. } 300.00		
			Trans. to Book Fd. } 1,350.00		50,000.00
Bussey Trust (1861), 392,710.18		" . . 19,659.26	Div. Sal. . . 3,970.44		
			Law " . . 3,970.44		
			B. I. G. Ex. . 7,940.88		
			F. & G. Sp. . 3,777.50		392,710.18
Carnegie Foundation Retiring Allowance,		Gifts . . . 80,040.36	" " . . 80,040.36		
Calvin and Lucy Ellis Aid (1899), . 175,658.69		Interest . . 9,485.58	Coll. Sal. . . 9,011.30		176,132.97
John Foster (1840), 4,008.66		" . . 216.48	Trans. to Foster Fd. Med. 150.00		4,075.14

Price Greenleaf (1887),	790,565.48	Interest	35,115.43	Trans. to Coll. Sch. }	3,000.00	
Henry Harris (1883),	29,939.33	"	1,616.71	Trans. to Coll. B. F. }	15,981.80	
Harvard Memorial Society (1898), .	1,971.69	"	106.49	Trans. to Engin. B. F. }	50.00	
Harvard Union Fund, . . . . .	.....	Gift Cap.	53,429.84	Trans. to Lib. G. Ex. }	15,083.63	
Harvard Union Class of 1878 Fund, .	.....	Interest	2,944.07	Trans. to Lib. Books }	1,000.00	790,565.48
		Gift Cap.	10,268.99	U. Ex.	808.36	
		Cap. Gain	450.00	Med. G. Ex. . .	808.35	29,939.33
		Interest	525.10	F. & G. S. . . .	325.00	1,753.18
Harvard Union Simes Fund, . . . .	.....	Gift Cap.	3,579.83	Union G. Ex. . .	2,944.07	53,429.84
		Interest	216.96	" Sp. "	525.10	10,718.99
William S. Murphy Scholarship (1916),	57,970.14	"	3,130.38	" "	216.96	3,579.83
		"	3,458.74	U. Ex.	2,022.88	
		"	87,892.19	Coll. Sch. . . .	500.00	
Robert Troup Paine (1880),	87,892.19	"	3,458.74	Gr. Bus. Sch. . .	107.50	
		"	3,458.74	Med "	500.00	57,970.14
		"	3,458.74	.....	.....	91,350.93
Amounts carried forward, \$43,912,381.75				\$2,186,794.99 \$45,341,786.93		

SUNDRY (continued)

	Principal, July 1, 1920	Receipts	Expenditures	Suspense June 30, 1921	Principal, June 30, 1921	Totals
Amounts brought forward, \$43,912,381.75					\$2,186,794.99	\$45,341,786.93
James Savage (1873),	42,000.00	Interest . . . \$2,268.00	Coll. Sch. . . \$300.00			
			Lib. G. Ex. . . 1,476.00			
			Obs. " " . . 492.00		42,000.00	
Dr. Flavius Searle Memorial (1921),		Gift Cap. . . 8,779.64				
		Cap. Gain . . 19.06				
		Interest . . 80.00				8,878.70
Frederick Sheldon (1909), . . . 442,002.38		Gift Cap. . . 10,189.89	Coll. Fell. . . 21,900.00			
		Interest . . 23,760.23	Arch. " . . 1,500.00			
			Law " " . . 200.00		452,352.50	
Edward Wigglesworth Memorial (1909), 150,000.00		" " " 8,100.00	Ap. Chap. G. Ex. . 8,100.00		150,000.00	
Anonymous Gifts for Botanical Museum,		Gifts . . . 3,884.16	Bot. Mus. " " . . 3,884.16			
		Interest . . 564.51			587.09	
Gifts for cases, Botanical Museum,						
Gifts for Gray Herbarium—current use,						
Gifts for expenses of Appleton Chapel,						
Gift for Music, Appleton Chapel,						
Amounts carried forward, \$44,546,948.64						2,840,613.28
						\$48,182,400.21

FUNDS IN TRUST FOR PURPOSES NOT CONNECTED WITH THE COLLEGE

Daniel Williams (1716),	\$17,728.87	Interest . . .	\$957.37	F. & G. Sp. .	\$650.00	.....	\$18,036.24
Sarah Winslow (1790),	4,814.54	" . . .	260.00	" " "	250.42	.....	4,824.12
	<u>\$44,569,492.05</u>						<u>\$22,860.36</u>
							<u>\$48,205,260.57</u>

SUMMARY:

Restricted uses, income only available	\$36,090,800.65
Restricted uses, principal and income available	1,865,851.71
Unrestricted uses, income only available	10,031,977.71
Unrestricted uses, principal and income available	216,630.50
	<u>\$48,205,260.57</u>

SCHEDULE 5, PART I

GENERAL SUSPENSE

CREDIT BALANCES

June 30, 1921

July 1, 1920	June 30, 1921
\$5,062.43 Cryptogamic Herbarium,	\$5,852.58
12,560.99 Gray Herbarium,	15,241.14
27,846.21 Summer Schools,	37,429.02
13,810.41 Divinity School,	4,875.09
92,884.04 Law School,	96,433.54
25,862.54 Medical Courses for Graduates,	24,072.16
36,691.25 Museum of Comparative Zoölogy,	40,754.84
4,519.89 Peabody Museum of American Archaeology and Ethnology,	4,293.14
12,343.39 Germanic Museum,	14,650.18
1,716.82 Botanical Museum,	669.89
3,436.94 Forestry Operations at Petersham, Mass.,	2,233.17
2.50 Laboratory Fees, Anthropology, . . . . .	.....
560.78 " " Astronomy,	196.49
..... " " Botany (Fernald),	30.00
32.77 " " Cryptogamic Botany	55.27
..... " " Botany (Jeffrey),	33.88
35.93 " " Forestry,	35.93
738.58 " " Geology,	676.58
.10 " " Hygiene and Sanitation, . . . . .	.10
294.33 " " Zoölogy, . . . . .	.....
1,612.22 Microscope Fees, Medical School,	1,495.69
1,361.46 War Hero Memorial,	1,429.53
7,497.00 Harvard Coöperative Society Deposit,	7,497.00
..... Harvard Endowment Fund, unrestricted,	32.00
26,411.85 Foxcroft House Fire Account,	27,608.01
50,413.41 Dane Hall Fire Account,	52,699.71
..... Little's Block and Dunster Hall	1,025.78
1,000.00 Estate, 63-65 Broad St.,	1,000.00
1,000.00 " 93-101 Arch St.,	1,000.00
60.00 Unidentified dividends,	90.00
<u><u>\$327,755.84</u></u>	<u><u>\$341,410.72</u></u>

SCHEDULE 5, PART II

GENERAL SUSPENSE

DEBIT BALANCES

June 30, 1921

July 1, 1920	Advances from General Investments to :	June 30, 1921
\$8,687.50	Aids, general,	\$3,125.00
2,540.00	Amory Estate,	1,920.00
.....	School of Architecture and Landscape Architecture . .	3,383.52
8,228.36	Botanic Garden,	10,485.86
8,708.67	Graduate School of Business Administration,	8,708.67
.....	Blue Hill Observatory	173.85
200.00	Bureau of Business Research—Retail Dry Goods Re- search Fund,	2,805.05
4,210.52	Bureau of Business Research—American National Re- tail Jewelers' Association,	1,998.90
823.11	Brewer Estate, 36-37 South Market St.,	509.93
.....	Bussey Institution,	10,472.98
52,108.72	Bussey Trust (Real Estate),	48,927.39
145.62	Classical Publication Fund of the Class of 1856, . . . . .	.....
6,433.24	Claverly and Westmorly Halls, . . . . .	.....
7,514.57	Committee on Economic Research, . . . . .	.....
87,628.98	Dental School,	126,635.75
104,020.26	Dental School Building,	104,020.26
602.72	Dept. of Education—Bureau of Vocational Guidance, . . . . .	.....
100.00	Henry Isaiah Dorr Bequest, . . . . .	.....
.....	Economics 2 Book Fund	124.88
19,122.67	School of Engineering	58,597.19
7,988.76	Estate 128-136 Federal St.,	7,417.26
13,671.56	" 364-366 Washington St.,	11,413.59
2,306.79	" 531-535 Washington St., . . . . .	.....
.....	Gift for Flagpole on Stadium in Memory of Dr. Milton Bettman	2,040.17
458.70	M. Douglas Flattery Prize Fund, . . . . .	.....
.....	Horace Fletcher Bequest	100.00
.....	Fogg Museum—Gifts for Museum Equipment and Emergency Fund,	599.87
.....	Freshman Halls, expenses use Summer 1921,	516.61
23,162.95	Gerrish Block,	19,853.95
1,663.56	Wolcott Gibbs Endowment,	567.14
2,386.88	Graduate School of Education,	2,564.59
125.00	Harvard Club of Buffalo, . . . . .	.....
50.00	" " Nebraska, . . . . .	.....
150.00	" " New Hampshire Scholarship,	150.00
1,708.99	Harvard Economic Studies,	2,048.02
364,748.13	.. Amounts carried forward,	\$429,160.43

July 1, 1920		June 30, 1921
\$364,748.13	Amounts brought forward,	\$429,160.43
.....	Harvard Endowment Fund, changes in Grays Hall, .	398.02
.....	“ “ “ restricted to Library, . .	5,000.00
1,234.08	Harvard Union Fund . . . . .	.....
113.86	“ “ Simes Fund . . . . .	.....
281.24	“ “ Class of 1878 Fund, . . . . .	.....
21,583.80	Harvard University Press,	45,000.00
.....	History I Book Fund,	693.94
100.00	A. Paul Keith Bequest,	100.00
337.27	W. Frederick Kimball Bequest,	352.27
.....	Law School, Oil Burning Equipment,	5,865.05
14,326.98	Medical School,	30,349.78
4,063.26	Medical Power House Oil Burning Equipment, . . . . .	.....
6,914.49	Medical School, Gift of National Cannery Association,	17,196.52
2,805.74	Old Boston Music Hall Estate, . . . . .	.....
6,255.69	Physical Laboratory Endowment, . . . . .	.....
200.00	Henry L. Pierce Estate	279.51
3,740.67	Sachs Research Fellowship	5,740.67
18.58	Mary R. Searle Fund	51.15
1,210.63	Richard Black Sewall Bequest . . . . .	.....
.....	South End House Fellowship,	89.96
.....	Summer Schools, advance expenses of 1921 School,	3,304.10
482.47	Ambrose Talbot Bequest,	503.45
1,390.58	John E. Thayer Fund, . . . . .	.....
230.00	Walter R. Tower Fund,	240.00
2,127.94	Townsend Estate, . . . . .	.....
187,915.63	Tunnel for steam pipes to College Buildings,	189,860.49
16,181.45	Webb Estate,	26,767.45
2,166.00	Wiggin Estate	7,048.64
7,189.64	Woodland Hill Fund,	6,549.12
2,346.52	Laboratory Fees, Chemistry,	3,705.78
	Library Funds:	
82.88	Francis James Child Memorial . . . . .	.....
.....	Price Greenleaf	1.19
18.60	Francis Parkman Memorial . . . . .	.....
31.07	Sales, . . . . .	.....
799.00	Evert Jansen Wendell Fund, . . . . .	.....
492.00	Special Gifts for Expenses of the Library . . . . .	.....
<u>\$649,388.20</u>		<u>\$780,257.52</u>

UNIVERSITY

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of the following Funds :

Anonymous No. 2,	\$1,635.20
Band Music,	61.72
Caroline M. Barnard Bequest (part),	2,462.99
J. Arthur Beebe Bequest (part),	8,662.93
S. Parkman Blake and Robert Parkman Blake Memorial,	2,700.00
Charlotte F. Blanchard,	1.56
Samuel D. Bradford,	283.50
Godfrey L. Cabot,	540.00
John W. Carter,	24.95
David L. F. Chase Bequest,	20.14
Fund of the Class of 1842,	8.42
Class of 1881,	6,204.54
“ 1882,	5,400.00
“ 1888,	5,529.00
“ 1889,	5,349.00
“ 1890,	4,989.15
“ 1891,	5,400.00
“ 1892,	3,500.00
“ 1893,	4,968.49
“ 1894,	5,018.32
“ 1895,	5,130.00
“ 1895, in memory of George C. Christian,	270.00
Class of 1896,	2,845.64
“ 1899,	3,194.86
John Coggan,	81.00
Edwin Conant,	57.35
Thomas Cotton,	8.42
John Cowdin,	236.80
George B. Dorr,	233.95
George Draper,	96.70
Charles Church Drew,	6,348.41
R. H. Eddy,	113.02
Harvard Ellis,	5,466.15
William Everett,	299.48
Richard W. Foster,	220.37
John Davis Williams French,	326.74
Amount carried forward,	\$81,376.06

UNIVERSITY (CONTINUED)

INCOME

Amount brought forward,	\$81,376.06	
Income of the following Funds (<i>continued</i>).		
George A. Goddard Bequest,	56.97	
John C. Gray,	48.35	
Samuel S. Greeley Bequest,	54.00	
Henry Harris ($\frac{1}{2}$ income),	808.36	
Harvard Endowment Fund unrestricted (part),	331,840.50	
Harvard Endowment Fund in memory Francis Lowell Gardiner Class of 1862,	540.00	
Harvard Endowment Fund in memory of Wil- liam S. Coggin '16,	20.04	
Harvard Foundation for Exchanges with French Universities,	1,937.30	
Walter Hastings,	1,520.26	
Henry L. Higginson,	59.39	
Thomas Hollis,	28.08	
John W. Houston,	108.00	
Thomas Hubbard,	54.00	
Nathaniel Hulton,	23.98	
Thomas Hutchinson,	12.58	
George Baxter Hyde,	270.00	
Insurance and Guaranty,	12.50	
Leonard Jarvis,	33.38	
A. Paul Keith Bequest (part),	3,262.19	
Joseph Lee,	20.28	
Morris Longstreth Bequest,	1,274.94	
Henry T. Morgan,	52.43	
Thomas G. Mower,	1,766.38	
Israel Munson,	31.19	
William S. Murphy (part),	2,022.88	
Henry S. Nourse (part),	678.86	
Francis E. Parker,	226.31	
George F. Parkman,	1,350.00	
President's,	3,488.24	
Daniel Russell,	81.76	
Richard Black Sewall,	996.79	
Lawrence E. Sexton Bequest,	44.12	
Archibald L. Smith Bequest,	34.61	
G. E. Walter Ullrich Memorial,	152.66	
William F. Weld,	202.76	\$440,802.89
Gifts for Trees:		
Gift Robert L. McCook, interest,	23.65	
Gift for purchase of painting, "The Three Philosophers,"	1,450.00	
Gift for general expenses,	624.61	2,098.26
Amount carried forward,		\$442,901.15

UNIVERSITY (CONTINUED)

INCOME

Amount brought forward, \$442,901.15

Alumni Directory Office :

Receipts for work done, \$1,406.01
 Gift for expenses, 500.00 \$1,906.01

War Records Office :

Receipts for work done, 6.75
 Care of the **Sarah Winslow Fund**, 6.50
 Use of houses by College officers, 806.67
 Sale of Annual Catalogue, 401.07
 Sale of Quinquennial Catalogue, 781.26
 Sale of other publications, 46.35
 Sale of paper, wood, junk, etc., 390.93
 Insurance, President's House, 600.00
 Unpaid checks credited, 456.26
 Rent of 38 Quincy St., 900.00
 Rent of Randall Garage, 14.00
 Varsity Club, share of 1919-20 expenditures by University, 388.51
 Harvard Union, operating surplus 1919-20 and 1920-21, 326.06 7,030.37
 \$449,931.52

Received from accumulated income of Funds and Gifts to cover
 deficits of restricted income, \$550.00
 \$450,481.52

EXPENDITURE

Administrative Expenses.

Corporation Office :

Rent, heat and light, \$686.29

Board of Overseers :

Salaries, \$500.00
 Services and wages, 11.20
 Reports of President and Treasurer, 6,420.28
 General printing, 543.53
 Stationery, postage, telephone and
 telegraph, 65.37
 Auditing Treasurer's accounts, 300.00
 Advertising (meetings, etc.), 52.60
 Sundry expenses, 30.25 \$7,923.23

President's Office :

Salaries :

President, \$11,364.45
 Secretary to the Corporation, 3,719.66
 Services and wages, 4,164.82
 Equipment and supplies, 275.96
 Printing, 819.24

Amounts carried forward, . . \$20,344.13 \$8,609.52

UNIVERSITY (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$20,344.13	\$8,609.52
Administrative Expenses (<i>continued</i>).		
President's Office (<i>continued</i>):		
Stationery, postage, telephone and telegraph,	1,020.58	
Sundry expenses,	104.84	21,469.55
Secretary's Office:		
Salary,	\$3,500.00	
Services and wages,	2,249.44	
Equipment and supplies,	712.03	
Stationery, postage, telephone, etc.,	528.61	
Printing,	657.84	
Travelling expenses,	165.02	
Sundry expenses,	57.93	7,870.87
Regent's Office:		
Salary,	\$1,000.00	
Sundry expenses,	63.74	1,063.74
Office of Medical Adviser:		
Salary,	\$5,500.00	
Services and wages,	1,000.00	
Sundry expenses,	204.38	6,704.38
Office of Purchasing Agent:		
Salary and expenses,		1,950.98
Treasurer's Office:		
Salaries:		
Treasurer,	\$9,000.00	
Other salaries,	5,300.00	
Services and wages,	2,659.25	
Rent, heat and light	2,745.15	
Office supplies and expenses, . . .	966.17	
Safe deposit vaults,	1,250.00	
Dues of National Association Owners		
of Railroad Securities,	400.00	22,320.57
Salary of Comptroller,		4,166.68
Bursar's Office:		
Salaries:		
Bursar,	\$5,000.00	
Assistant Comptroller,	4,000.00	
Services and wages,	33,529.21	
Equipment and supplies,	2,615.08	
Printing,	2,624.06	
Stationery, postage, telephone, etc.,	2,713.72	
Auditing accounts,	1,200.00	
Mercantile Agency,	1,617.00	
Heat and caretaking,	1,422.09	
Changes in office,	548.37	
Amounts carried forward,	\$55,269.53	\$74,156.29

UNIVERSITY (CONTINUED)

EXPENDITURE

Amounts brought forward, \$55,269.53 \$74,156.29

Administrative Expenses (*continued*).Bursar's Office (*continued*):

Insurance premium on surety bonds,	125.00	
Repairs,	131.89	
Sundries,	485.38	56,011.80

Inspector of Grounds and Buildings:

Salary,	\$8,000.00	
Services and wages,	7,664.81	
Office supplies and expenses,	1,110.83	
Professional services,	1,200.00	
Automobile service,	1,320.00	
Chief Engineer's Office, services and expenses,	2,877.89	
Head Carpenter, services,	2,580.00	
Sanitary Inspector's Salary,	600.00	
Care of Grounds,	20,092.20	
Trees and Shrubs,	6,631.57	
	<u>\$52,077.30</u>	

Less amounts received for superin- tendence,	655.67	51,421.63
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Second Assistant Comptroller:

Salary,	\$2,333.33	
Office supplies and expenses,	348.85	
Head Janitor,	2,896.78	
Assistant Janitor,	1,894.00	
Janitor's Office supplies and expenses,	1,134.85	
Watchmen's Wages,	10,489.10	19,096.91
		<u>\$200,686.63</u>

Appropriations to Departments, 145,911.80

Special Academic Activities.

Salary of Dean of University Extension, \$375.00

General Expenses:

Dues to Association of American Universities,	\$40.00	
Contribution to American Council of Education,	500.00	
Expenses of Exchange Professor,	600.00	1,140.00
		<u>1,515.00</u>

Records and Publications.

Annual Catalogue:

Printing and supplies, \$12,893.19

Publication Office:

Salary,	\$1,666.67	
Services and wages,	961.58	
Sundry expenses,	968.43	3,596.68

Amounts carried forward, \$16,489.87 \$348,113.43

UNIVERSITY (CONTINUED)

EXPENDITURE

Amounts brought forward, \$16,489.87 \$348,113.43

Records and Publications (*continued*).

Quinquennial Catalogue :

Salary,	\$50.00	
Services and wages,	3,314.75	
Printing, etc.,	9,974.86	
Sundry expenses,	292.94	13,632.55

Alumni Directory :

Services and wages,	\$3,156.71	
Equipment and supplies,	229.45	
Stationery, postage, telephone, etc.,	489.89	
Printing,	51.47	
Sundry expenses,	119.28	4,046.80

War Records Office :

Services and Wages,	\$6,416.99	
Equipment and supplies,	103.52	
Stationery and postage,	604.53	
Printing,	577.08	
Sundries,	8.35	7,710.47

University Gazette :

Expenses,	\$2,719.67	
Less sales,	318.32	2,401.35 44,281.04

Miscellaneous Expenses :

Excess of Expenses over Income.

Riverside Estate,	\$4,165.09
Charlesbank Estate,	305.57
Claverly Trust,	5,798.69
Agassiz Estate, Quincy St.,	328.57
Expenses, Real Estate, Lucas St., Boston,	168.70
Amount paid to Museum of Comparative Zoölogy as income on the Agassiz Estate, Quincy St.,	2,160.00
Maintenance of sundry buildings, unclassified,	5,212.37
To create Reserve for Changes in Electric Service,	20,000.00
Interest on Yard Heat Tunnel advances,	9,395.78
Replacement of Apparatus at Hemenway Gym. occasioned by use of building by U. S. Naval Radio School,	108.00
Legal Services,	300.44
Services of Head Guide,	150.00
Delivery Service,	498.25

Motor Trucks :

Expenses,	\$5,801.81	
Less charges for work done,	5,024.38	777.43

Commencement Exercises,	1,283.31
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Amounts carried forward, \$50,652.20 \$392,394.47

UNIVERSITY (CONTINUED)

EXPENDITURE

Amounts brought forward, \$50,652.20 \$392,394.47

Miscellaneous Expenses (*continued*):

Honorary Degrees and Cases,	257.00	
Memorial Day Celebration,	62.66	
Entertainment of Special Guests,	81.65	
Pensions,	1,239.00	
Revising Mailing Lists for President's Report and Annual Catalogue,	315.00	
University Catalogue in Spanish,	320.86	
Guide Books,	411.79	
Charts — Distribution of Harvard Students,	424.00	
From Gift to purchase Painting "The Three Phi- losophers,"	2,000.00	
Freight on War Relics and Trophies,	48.93	
Pins for Nurses serving in Harvard Unit,	2,072.70	
Repayments to U. S. Navy for Radio School Subsist- ence Charge,	1,602.10	
University Printing Office:		
1919-20 Expenses paid in 1920-21,	4,652.85	
Survey of Palfrey Estate,	248.00	
Work on Fences,	508.36	
Equipment and Supplies,	197.50	
Sundries,	137.67	65,232.27
		<hr/>
		\$457,626.74
Less "University Charge" prorated to Departments,		165,723.56
		<hr/>
		\$291,903.18
Restricted income not used and added to Funds and Gifts,		9,300.04
Income carried to General Suspense,		32.00
Surplus of general income, Schedule 40,		149,246.30
		<hr/>
		\$450,481.52
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COLLEGE

(Including the Graduate School of Arts and Sciences)

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts for Instruction.

Alford Professorship,	\$1,674.11
Edward Atkinson ,	2,122.91
Edward Austin (part),	\$1,554.07
Austin Teaching Fellowships ,	17,712.50
John B. Barringer ,	19,266.57
John B. Barringer ,	1,657.10
Mrs. Francis Bowen Bequest,	432.00
Boylston Professorship,	1,530.20
Class of 1880 ,	5,598.13
Class Subscription ,	8,134.45
Eaton Professorship,	6,329.83
Eliot Professorship,	1,167.48
Eliot Professorship (Jno. Phillips' Gift),	540.00
Calvin and Lucy Ellis Aid,	9,485.58
Erving Professorship,	189.00
John S. Farlow Memorial (part),	1,200.00
Fisher Professorship,	2,252.02
Henry Flynt (part),	18.08
Fund for Permanent Tutors,	876.96
Gospel Church ($\frac{1}{2}$ income used),	528.34
Gurney ,	10,805.24
Harvard Endowment Fund:	
George F. Baker Professorship,	5,400.00
Salary Professor DeWulf ,	1.08
Jonathan Trumbull Professorship,	4.16
Hersey Professorship ($\frac{3}{8}$ income),	655.03
Hersey Professorship (Thomas Lee's gift),	1,174.18
Francis Lee Higginson ,	22,999.10
Hollis Professorship (Mathematics),	212.87
Sturgis Hooper Professorship,	5,857.75
John E. Hudson Professorship,	8,440.00
Abbott Lawrence (part),	1,711.94
James Lawrence (part),	1,410.62
Henry Lee Professorship,	6,739.90
Thomas Lee , for Reading,	853.04
Arthur T. Lyman ,	3,240.00
Gordon McKay Endowment (part),	9,056.67
McLean Professorship,	2,325.40
Henry Kemble Oliver Fund (part),	19,141.51

Amount carried forward, \$163,031.25

COLLEGE (CONTINUED)

INCOME

Amount brought forward, \$163,031.25

Income of Funds and Gifts for Instruction

(continued).

Daniel H. Peirce,	829.44	
Francis Greenwood Peabody Fund, . . .	6,410.72	
Perkins Professorship,	1,191.83	
Pope Professorship,	2,835.00	
Professorship of Latin-American History and Economics (part),	4,500.00	
Nelson Robinson, Jr. Additional,	108.43	
Eliza O. and Mary P. Ropes,	5,926.54	
Rumford Professorship,	3,378.56	
Smith Professorship,	1,249.56	
Teachers' Endowment:		
Interest (part),	\$107,461.24	
Gift,	200.00	107,661.24
Henry Villard,	101.38	
Henry W. Wales:		
Wales Professorship (part),	1,835.16	
Henry C. Warren (part),	3,664.84	
Sylvester Waterhouse,	684.23	
David A. Wells (part),	4,793.51	
Jerome Wheelock,	14.69	
Alfred Tredway White (part),	3,667.07	
Morrill Wyman Fund (part),	3,306.47	
Gifts for salaries,	6,625.00	\$321,814.92

Income of Funds for General Purposes.

John W. P. Abbot (accumulating),	\$1,145.23
Thomas J. Allen,	1,625.67
John A. Blanchard,	56.70
Class of 1883,	5,400.00
" 1884,	5,405.40
" 1885,	6,039.36
" 1886,	5,400.00
" 1887,	5,400.00
Edward W. Codman,	9,770.41
George G. Crocker,	270.00
Charles L. Hancock (part),	4,128.64
Matchett,	17,550.00
Emily H. Moir Bequest,	969.57
Trenor L. Park,	1,183.41
Jonathan Phillips,	1,701.00
William M. Spackman,	135.00
Henry Baldwin Stone Memorial,	3,300.00

Amounts carried forward, \$69,480.39 \$321,814.92

COLLEGE (CONTINUED)

INCOME

Amounts brought forward,	\$69,480.39	\$321,814.92
Income of Funds for General Purposes (<i>continued</i>).		
Edward Wheelwright Bequest,	4,050.00	
Davies Wilson ,	293.65	73,824.04
Income of Fellowship Funds and Gifts for Fellowships,		61,846.16
Income of Scholarship Funds and Gifts for Scholarships,		89,013.83
Income of Beneficiary and Loan Funds and Repayments,		75,114.84
Income of Prize Funds and Gifts for Prizes,		6,573.43
Income of Sundry Funds for Special Purposes:		
Percy Lee Atherton Gift,	\$590.17	
Botanic Department (part):		
$\frac{1}{4}$ for Cryptogamic Herbarium,	\$537.03	
$\frac{1}{8}$ for Laboratories of Botany,	268.51	805.54
William H. Baldwin, Jr., 1885 ,	301.81	
Louise E. Bettens ,	1,199.39	
Charles Osmyn Brewster ,	543.94	
Classical Publication Fund of the Class of 1856 :		
Interest,	387.67	
Class of 1883 Special,	23.60	
T. Jefferson Coolidge , for Research in Physics,	1,064.83	
Cryptogamic Herbarium,	253.12	
Ernest B. Dane Fund in Physics:		
Interest,	\$2,908.49	
Gifts for income,	2,550.00	
Other receipts,	1,064.86	6,523.35
Alexis Irenée Du Pont ,	5,798.48	
English A Fund:		
Sales of publication,	\$566.43	
Gift,	50.00	616.43
John S. Farlow Memorial (part),	4,305.94	
George A. Gardner ,	306.88	
Wolcott Gibbs Memorial,	1,323.92	
Harvard Economic Studies:		
Sales of publications,	1,931.24	
Harvard Oriental Series,	832.03	
History Book Fund (History 1):		
Sales of publications,	254.71	
Richard Hodgson Memorial,	838.46	
Albert Fairchild Holden Bequest,	16	
Gardiner M. Lane Bequest,	90.13	
Calvin Stoughton Locke Fund,	54.00	
Solomon Lincoln Bequest:		
Interest,	\$722.30	
Sale of publications,	101.94	824.24
Amounts carried forward,	\$28,870.04	\$628,187.22

COLLEGE (CONTINUED)

INCOME

Amounts brought forward, . . . \$28,870.04 \$628,187.22

Income of Sundry Funds for Special Purposes

(continued).

Joseph Lovering for Physical Research :

Interest, \$425.68

Sale of publications, 49.80 475.48

Mathematics Book Fund, sales of publications, 17.69

Maria E. McMaster Bequest, 427.79

Music Building Maintenance Fund, 2,930.10

Music Department, 18.79

Henry Kemble Oliver Fund (part), 2,065.00

Physical Laboratory Endowment :

Interest, \$4,050.00

Gift for income, 9,000.00 13,050.00

Professorship of Latin American History and

Economics (part), 514.74

Robert W. Sayles, 274.97

George William Sawin, 487.30

Shaler Memorial Fund, 2,198.02

Henry Warren Torrey :

Interest, \$574.24

Sales, 250.11 824.35

Cyrus M. Warren, 431.46

Henry C. Warren (part), 3,073.28

David A. Wells (part), 1,297.97

Alfred Tredway White Endowment (part), 1,399.14

Harvard Endowment Fund (restricted uses):

John W. Appel Loan Fund, 221.56

Atkins Fund for Tropical Re-

search in Economic Botany, 4,408.50

Department of Chemistry, 10.80

“ “ “ Salaries and Equip-
ment, 130.63

T. Jefferson Coolidge, Department of

Chemistry, 540.00

John A. Morris Memorial, 582.98

Richard Hodgson Memorial, 5.02

Department of Dramatic Literature, 16.15

Department of Germanic Languages,81

Department of Music, 232.58

William Reed Scholarship, 25.70

Price Greenleaf Aid, 8.21

Scholarship and Beneficiary Money Returned, 3.56

Graduate School of Arts and Sciences,43 64,543.05

Amount carried forward, \$692,730.27

COLLEGE (CONTINUED)

INCOME

Amount brought forward,		\$692,730.27
Sundry Gifts for Special Purposes :		
Gifts,	\$26,327.35	
Interest and other receipts,	<u>22,063.43</u>	48,390.78
Receipts from students.		
Tuition Fees — Regular Programme :		
College Regular,	\$412,680.00	
“ Special,	10,694.67	
Unclassified,	55,563.50	
Out of Course,	<u>16,660.00</u>	\$495,598.17
Graduate School of Arts and Sciences, . .	72,770.50	
Radcliffe students in College courses, . . .	6,000.00	
Tuition Fees — Additional Courses :		
College, Regular,	\$27,791.22	
Unclassified,	5,175.00	
Out of Course,	<u>1,070.00</u>	34,036.22
Examination Fees :		
Admission,	\$3,685.00	
Condition, make-up and advanced standing,	<u>1,278.00</u>	4,963.00
Graduation Fees,		840.00
Auditor's fees,		10.00
Laboratory Fees :		
Anthropology,	\$7.50	
Astronomy,	78.93	
Botany,	177.50	
Chemistry, Boylston Hall, . . .	24,140.87	
Chemistry, Gibbs Laboratory, . .	92.40	
Geology,	38.00	
Mineralogy,	17.50	
Music,	105.00	
Physics,	82.00	
Psychology,	12.50	
Zoölogy,	<u>30.00</u>	24,782.20
College Dormitories: Hollis, Stoughton, Holworthy, Thayer, Weld, Wadsworth House, Walter Hastings, Perkins, and Conant,	\$87,994.09	
Matthews Hall,	<u>12,830.00</u>	
	\$90,824.09	
Less $\frac{1}{2}$ net income from Matthews Hall, credited under income of Matthews Scholarship, . .	<u>1,182.97</u>	89,641.12
College Dormitories: Freshman Halls,	79,666.27	808,307.48
Amount carried forward,		\$1,549,428.53

COLLEGE (CONTINUED)

INCOME

Amount brought forward, \$1,549,428.53

Sundry Receipts :

Sale of publications,	\$424.12	
Duplicate admission certificate,	10.00	
Amount collected on term bills charged off in previous years,	165.71	
Duplicate diplomas,	65.50	
Repayment of appropriation of 1919-20 by Department of Astronomy,	500.00	
Sundries,	31.07	1,196.40
		<u>\$1,550,624.93</u>

Received from accumulated income of Funds and Gifts to cover deficits of restricted income,	41,955.92	
Credit balances of laboratory fees in General Suspense used,	723.12	
Overdrafts against sundry funds and gifts carried to General Suspense,	5,174.21	
Deficit of general income, Schedule 40,	279,014.70	
		<u><u>\$1,877,492.88</u></u>

EXPENDITURE

From Fellowship Funds and Gifts,	\$48,500.00	
From Scholarship Funds and Gifts,	70,515.22	
From Beneficiary and Loan Funds and Gifts,	34,525.55	
From Prize Funds and Gifts for Prizes,	3,910.90	
For Scholarships and Loans from General Funds.		
Graduate School of Arts and Sciences:		
University Scholarships,	\$6,500.00	
Appropriation for Loan Fund,	1,500.00	8,000.00
From Sundry Funds and Balances for Special Purposes.		
Percy Lee Atherton Gift,	\$625.00	
Louise E. Bettens Fund,	3,250.00	
Charles O. Brewster Fund, Department of Music,	500.00	
Classical Publication Fund of the Class of 1856:		
Harvard Studies in Classical Philology,	241.65	
T. Jefferson Coolidge for Research in Physics,	1,064.83	
Ernest B. Dane Fund in Physics,	1,394.85	
Alexis Irenée DuPont Fund,	3,858.69	
Economics 2 Book Fund,	359.10	
English A Fund,	692.87	
John S. Farlow Memorial, Cryptogamic Herbarium (part),	2,530.86	
George A. Gardner, for photographs, etc., for the Department of Geology,	378.61	

Amounts carried forward, \$14,896.46 \$165,451.67

COLLEGE (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$14,896.46	\$165,451.67
From Sundry Funds and Balances for Special Purposes (continued).		
Wolcott Gibbs Memorial Endowment,	1,891.06	
Harvard Oriental Series, publications,	832.03	
Harvard Economic Studies,	2,572.08	
History Book Fund (History 1),	1,090.11	
Richard Hodgson Memorial,	16.39	
Gardiner M. Lane Bequest,	156.43	
Solomon Lincoln Bequest,	582.95	
Joseph Lovering Fund,	351.04	
Mathematics Book Fund,	149.73	
Henry K. Oliver (part),	2,065.00	
Professorship of Latin-American History and Economics Fund (part),	11.70	
Nelson Robinson, Jr. Additional (part).		
Psychological Laboratory,	\$1,377.67	
Books,	185.72	
Librarian Department Philosophy (part),	553.48	
	\$2,116.87	
Less amount paid for salaries,	553.48	1,563.39
Shaler Memorial,	10,000.00	
Henry Warren Torrey, publications,	883.39	
Henry C. Warren, publications and books,	6,192.99	
David A. Wells (part),	1,297.97	
Jefferson Physical Laboratory Endowment,	6,794.31	51,347.03
From Gifts, etc., for Special Purposes,		39,891.54
Administration Offices.		
Dean of the Faculty of Arts and Sciences :		
Salary,	\$500.00	
Services and wages,	2,245.00	
Office supplies and expenses,	208.77	2,953.77
Dean of Harvard College :		
Salaries,	\$12,800.00	
Services and wages,	15,535.10	
Office supplies and expenses,	6,069.94	
Appropriation for statistics,	1,030.33	35,435.37
Dean and Secretary of the Graduate School of Arts and Sciences :		
Salaries,	\$4,000.00	
Services and wages,	1,703.48	
Office supplies and expenses,	1,122.74	6,826.22
Secretary Administrative Board for Special Students :		
Salary,		500.00
Amount carried forward,		\$302,405.60

COLLEGE (CONTINUED)

EXPENDITURE

Amount brought forward, \$302,405.60

Administration Offices (*continued*).

Secretary of the Faculty of Arts and Sciences:

Salaries,	\$600.00	
Office supplies and expenses,	108.17	708.17

Students Employment Office and Appointment Office:

Salary of Secretary,	\$1,250.00	
Services and wages,	4,016.96	
Office supplies and expenses,	1,497.39	6,764.35

Secretary Committee on Choice of Electives:

Services and wages,	\$2,479.34	
Office supplies and expenses,	677.85	3,157.19

Professor of Hygiene:

Office expenses,		294.75
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Director of Physical Training:

Office expenses,		391.88
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From Appropriations.

Anthropology,	\$141.50	
Astronomy,	1,655.00	
Botany,	5,131.07	
Classics,	250.00	
Chemistry,	22,818.00	
Economics,	3,064.44	
English,	301.00	
Fine Arts,	1,162.35	
French and other Romance Languages,	1,897.63	
Geology,	1,781.60	
German,	225.00	
History,	863.66	
History, Government, and Economics,	1,418.81	
Government,	33.56	
Mathematics,	1,132.57	
Mineralogy and Petrography,	744.64	
Music,	958.22	
Physics,	13,790.00	
Psychology,	407.00	
Zoölogy,	1,747.25	59,523.30

From Laboratory Fees.

Anthropology,	\$10.00
Astronomy,	443.22
Botany,	91.12
Chemistry, Boylston Hall,	25,500.13
Chemistry, Gibbs Laboratory,	92.40
Geology,	100.00

Amounts carried forward \$26,236.87 \$373,245.24

COLLEGE (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$26,236.87	\$373,245.24
From Laboratory Fees (<i>continued</i>).		
Mineralogy,	17.50	
Music,	105.00	
Physics,	82.00	
Psychology,	12.50	
Zoölogy,	324.33	26,778.20
For College Public Buildings, which are not valued in the Treasurer's books.		
Repairs and Equipment,	\$6,300.80	
Caretaking and Operating Expenses,	51,466.32	
Changes in Boylston Hall,	1,176.80	58,943.92
For College Dormitories which are not valued in the Treasurer's books.		
Hollis, Stoughton, Holworthy, Thayer, Weld, Wadsworth House, Walter Hastings, Perkins, and Conant; and for Matthews Hall:		
Repairs and Equipment,	\$12,133.18	
Caretaking and Operating Expenses,	69,009.75	
New lights and heating equipment, Perkins, . .	4,081.07	
New lights, Walter Hastings,	1,000.15	
New lights, Conant,	556.77	
Changes in Wadsworth House,	33.89	
Freshman Halls:		
Maintenance and depreciation,	20,000.00	
Caretaking and Operating Expenses,	68,232.58	175,047.39
General.		
Salaries for Instruction:		
Edward Austin (part):		
Austin Teaching Fellowships, \$17,712.50		
From Sundry Funds and Gifts, . 305,963.34		
From General Income, 601,228.85	\$924,904.69	
Expenses Department of Military Science, . . .	1,197.94	
Tutors in Division History, Government and Economics, balance of 1919-20 salaries,	3,904.58	
Services and wages,	6,477.43	
Proctors,	3,206.53	
Equipment and supplies,	1,354.56	
Blue-books,	2,468.95	
Printing,	14,366.38	
Diplomas,	1,672.05	
Stationery, postage, telephone, etc.,	949.88	
Monitorships,	2,025.90	
Subscription to American School of Classical Studies,	250.00	
Amounts carried forward,	\$962,778.89	\$634,014.75

COLLEGE (CONTINUED)

EXPENDITURE

Amounts brought forward, \$962,778.89 \$634,014.75

General (*continued*).

Music Class Day,	125.00	
Travelling expenses,	500.00	
Legal expenses,	126.98	
Books,	192.00	
Refreshments at Faculty Meetings,	107.62	
Insurance on apparatus,	150.37	
Graduate School Reception,	145.00	
Sundries,	274.08	964,399.94

Admission Examinations.

Salary,	\$6,000.00	
Services and wages, office,	5,022.11	
Services of examiners,	1,859.54	
Services of proctors,	165.00	
Other expenses,	3,473.16	16,519.81

Payments made from College Income for the following accounts :

Jefferson Physical Laboratory,	\$600.00	
Wolcott Gibbs Memorial Laboratory,	967.81	
Museum of Comparative Zoölogy, Schedule 28,	4,774.75	
Peabody Museum of American Archaeology and Ethnology, Schedule 29,	719.55	
William Hayes Fogg Art Museum, Schedule 32,	6,502.67	
Phillips Brooks House, Schedule 34,	2,593.46	
Gymnasiums, Schedule 35,	13,482.77	
Stillman Infirmary, Schedule 36,	11,664.00	41,305.01

University charge.

President's Office, salaries and expenses,	\$9,031.42
Treasurer's Office, care of investments,	7,092.82

Bursar's Office :

Collections and payments,	\$26,375.86	
Letting College rooms,	800.00	27,175.86
Medical Adviser, salary and expenses,	3,754.75	
Regent's Office, salary and expenses,	670.81	
Inspector of Grounds and Buildings, salary and expenses,	6,800.66	
Publication Agent, salary and expenses,	2,221.71	
Annual Catalogue,	5,900.75	
Quinquennial Catalogue,	6,925.56	
90 % Memorial Hall and Sanders Theatre building expenses,	1,791.85	
Watchmen,	5,050.58	

Amounts carried forward, \$76,416.77 \$1,656,239.51

COLLEGE (CONTINUED)

EXPENDITURE

Amounts brought forward, \$76,416.77 \$1,656,239.51

University charge (*continued*).

Engineer,	1,660.87	
Carpenter,	1,122.31	
Janitor,	4,511.87	
Purchasing Agent,	149.14	83,860.96
		<hr/>
		\$1,740,100.47
Restricted income not used and added to Funds and Gifts, . . .		122,237.14
Balances of restricted income carried to General Suspense, . . .		1,064.39
Restricted income carried to General Suspense to pay overdrafts of former years,		14,090.88
		<hr/>
		\$1,877,492.88
		<hr/>

LIBRARY

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Book Funds and Gifts and Receipts for the
purchase of books.

Edwin Swift Balch,	\$220.17
Francis Boott (part),	418.90
Nathaniel I. Bowditch,	134.68
Bright Legacy ($\frac{1}{2}$ income),	1,356.10
William R. Castle,	108.23
Francis James Child Memorial,	1,550.39
Robert P. Clapp,	280.42
Fund of the Class of 1851,	109.35
Book Fund of the Class of 1881,	204.28
Edwin Conant ($\frac{1}{4}$ income),	378.89
Constantius ($\frac{1}{2}$ income),	705.89
Archibald C. Coolidge and Clarence L. Hay	328.27
S. Newton Cutler,	58.86
Bayard Cutting Fellowship,	14.63
W. Bayard Cutting Bequest,	637.09
Horace Davis Bequest,	527.47
Peter P. F. Degrand Bequest (part),	4,872.96
Denny,	301.00
Eliza Farrar,	332.69
John Hays Gardiner Memorial,	129.44
Department of German,	172.15
Price Greenleaf (part),	1,000.00
Charles Gross Memorial,	101.79
George S. and Ellen S. Hale,	360.33
Edward H. Hall,	607.45
Frederic Hilborn Hall Memorial,	285.28
Harvard Endowment Fund:	
In memory of Percy Chase, '88,	54.49
In memory of Harry H. Hill,	47.95
Richard Mather Jopling Fund,	70.85
In memory of Charles Castner	
Lilly, . . . . .	.54
Dillwyn Parrish Starr Memorial,	204.12
Horace A. Haven,	190.13
Francis B. Hayes,	548.37
George Hayward,	329.94
Thomas Hollis,	134.19
Sidney Homer,	122.96

Amount carried forward, \$16,960.25

LIBRARY (CONTINUED)

INCOME

Amount brought forward, \$16,960.25

Income of Book Funds and Gifts and Receipts for the
purchase of books (*continued*).

George Schunemann Jackson,	1,312.82
Jarvis,	27.11
Richard Mather Jopling,	28.56
Horatio King (part),	141.06
Kittredge Anniversary Fund,	238.63
Frederick A. Lane,	299.64
George C. Lodge and Joseph Trumbull Stickney Memorial,	203.90
Lowell,	1,809.81
Francis Cabot Lowell,	654.64
James Jackson Lowell,	1,107.38
Wainwright Merrill Memorial,	160.98
Charles Minot,	3,308.09
Elkan Naumburg Fellowship,	98.22
George Nichols,	50.33
Charles Eliot Norton,	491.13
Lucy Osgood,	422.98
Mary Osgood,	441.61
Francis Parkman Memorial,	277.06
George F. Parkman,	1,363.82
B. Osgood Peirce,	65.01
James Mills Peirce Bequest,	33.26
Charles Elliott Perkins Memorial,	16.63
Professorship of Latin-American History and Economics (part),	2,524.09
Hugo Reisinger Bequest,	275.77
Francis Sales,	211.52
Salisbury,	364.39
Sever,	1,137.94
Samuel Shapleigh,	214.33
George B. Sohler (part),	141.50
Clement Lawrence Smith,	65.28
Strobel Memorial (Class of 1877),	186.68
Strobel Memorial (Siam),	132.14
Subscription,	570.18
Charles Sumner,	2,090.07
Kenneth Matheson Taylor,	283.61
Elizabeth Torrey,	69.50
Daniel Treadwell ($\frac{1}{2}$ income),	328.05
John Harvey Treat Book Fund,	3,252.70
Ichabod Tucker,	265.20

Amount carried forward, \$41,625.87

LIBRARY (CONTINUED)

INCOME

Amount brought forward, \$41,625.87

Income of Book Funds and Gifts and Receipts for the
purchase of books (*continued*).

20th Mass. Regiment of Volunteer Infantry, . . .	56.75	
Wales Income for Books,	314.47	
James Walker,	885.71	
Thomas W. Ward,	297.92	
Julian Palmer Welsh Memorial,	167.24	
Evert Jansen Wendell,	589.68	
J. Huntington Wolcott,	1,109.92	
Chauncey Wright,	74.63	\$45,122.19

Gifts for books:

Gifts,	\$2,261.05	
Interest,	147.78	\$2,408.83
Sale of duplicate books,		1,099.26
Received for books lost,		199.13
Received for fines,	1,007.55	4,714.77

Gifts for Special Purposes.

Gift for certain expenses, \$3,173.00

Gift for printing Library Notes:

Gift,	\$900.00	
Interest,	10.30	
Other receipts,	75.00	985.30
		4,158.30

Henry Weston Farnsworth Memorial, ex-
penses of Farnsworth room, \$1,694.63

R. M. Hodges Fund (part), for pub-
lishing Bibliographical Contributions:

Interest,	\$414.89	
Sales publication,	104.62	519.51

Robert Gould Shaw Fund, maintenance of
theatre collection, 2,759.78 4,973.92

Income of Funds for general purposes.

Anonymous Fund for Library,	\$1,350.00	
Daniel Austin,	421.58	
Edwin Conant ($\frac{3}{4}$ income),	1,136.67	
Constantius ($\frac{1}{2}$ income),	705.89	
Price Greenleaf (part),	15,083.63	

Harvard Endowment Fund:

In memory Harry Elkins Widener, . . .	1,818.24	
Henry L. Pierce,	2,700.00	
Henry L. Pierce, Residuary (part),	2,368.86	
Stephen Salisbury Bequest,	276.48	
James Savage (part),	1,476.00	
Amey Richmond Sheldon,	16,200.32	

Amounts carried forward, \$43,537.67 \$58,969.18

LIBRARY (CONTINUED)

INCOME

Amounts brought forward,	\$43,537.67	\$58,969.18
Income of Funds for General Purposes (<i>continued</i>).		
Daniel Treadwell ($\frac{1}{2}$ income),	328.05	
Eben Wright,	5,400.00	49,265.72
Fees for use of Library,	\$370.00	
Sales of printed cards,	1,566.85	
Contribution Radcliffe College toward expenses,	1,000.00	
Sale of photographs,	189.38	
Sale of waste paper,	76.02	
Sale of publications,	15.52	
Sale of photostat prints,	1,182.57	4,400.34
		<u>\$112,635.24</u>
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,		20,167.15
Overdrafts against sundry funds and gifts carried to General Sus- pense,		5,001.19
Deficit of general income, Schedule 40,		97,567.27
		<u><u>\$235,370.85</u></u>

EXPENDITURE

For Books, from the following Funds, Gifts, etc.

Edwin Swift Balch,	\$170.61
Francis Boott,	408.58
Bowditch,	45.88
Bright,	1,305.91
Castle,	89.93
Francis James Child Memorial,	975.36
Robert P. Clapp,	691.68
Fund of the Class of 1851,	109.62
Book Fund of the Class of 1881,	405.34
Edwin Conant,	701.16
Constantius,	872.83
A. C. Coolidge and C. L. Hay,	1,362.53
S. Newton Cutler,	119.49
Bayard Cutting Fellowship,	46.28
W. Bayard Cutting Bequest,	1,022.70
Horace Davis Bequest,	139.72
Peter P. F. Degrand Bequest,	6,146.01
Denny,	588.78
Farrar,	474.13
John Hays Gardiner Memorial,	76.72
Department of German,	16.10
Price Greenleaf (part),	1,297.54

Amount carried forward, \$17,066.90

LIBRARY (CONTINUED)

EXPENDITURE

Amount brought forward, \$17,066.90

For Books, from the following Funds, Gifts, etc.

(continued).

Charles Gross Memorial,	123.20
George S. and Ellen S. Hale,	742.56
Edward H. Hall,	1,804.61
Frederic Hilborn Hall Memorial,	286.34
Harvard Endowment Fund :	
In memory of Percy Chase '88,	56.81
Harry H. Hill Memorial,	6.09
Richard Mather Jopling Fund,	88.06
Dillwyn Parrish Starr Memorial,	166.20
Haven,	78.13
Hayes,	660.40
Hayward,	609.33
Hollis,	125.13
Homer,	149.72
George Schunemann Jackson,	82.35
Jarvis,	28.47
Richard Mather Jopling,	14.56
Horatio King,	37.50
Kittredge Anniversary,	288.93
Lane,	550.74
Latin-American Professorship,	2,524.09
G. C. Lodge and J. T. Stickney Memorial,	281.79
Lowell,	2,506.30
Francis Cabot Lowell,	1,292.46
James Jackson Lowell,	1,356.27
Wainwright Merrill Memorial,	187.47
Minot,	4,308.51
Elkan Naumburg Fellowship,	1,808.80
George Nichols,	6.00
Charles Eliot Norton,	571.86
Lucy Osgood,	512.11
Mary Osgood,	1,024.87
Francis Parkman Memorial,	252.71
George F. Parkman,	1,463.19
B. Osgood Peirce,	51.96
James Mills Peirce Bequest,	40.65
Charles Elliott Perkins Memorial,	135.94
Hugo Reisinger Bequest,	12.21
Sales,	169.02
Salisbury,	1,835.96
Sever,	1,990.53

Amount carried forward, \$45,298.73

LIBRARY (CONTINUED)

EXPENDITURE

Amount brought forward, \$45,298.73

For Books, from the following Funds, Gifts, etc.

(continued).

Shapleigh,	214.67	
Clement Lawrence Smith,	2.70	
George B. Sohler (part),	154.57	
Strobel Memorial (1877),	152.45	
“ “ (Siam)	221.31	
Subscription,	579.95	
Sumner,	2,583.25	
Kenneth Matheson Taylor,	429.21	
Elizabeth Torrey,	201.21	
Daniel Treadwell,	390.64	
John Harvey Treat,	3,126.83	
Tucker,	523.50	
20th Mass. Regiment of Volunteer Infantry,	41.68	
Wales,	513.33	
Walker,	1,409.88	
Ward,	408.76	
Julian Palmer Welsh Memorial,	26.98	
Evert Jansen Wendell,	607.78	
J. Huntington Wolcott,	1,251.84	
From Sundry gifts for books,	5,732.22	
Duplicate money and receipts for lost books,	1,052.32	
Fines,	489.18	\$65.412.99
From Henry Weston Farnsworth Memorial, expenses of Farnsworth Room,	\$1,370.45	
Robert Gould Shaw Fund, maintenance of theatre collection,	2,500.00	3,870.45
From Gift for new equipment,	\$49.31	
“ “ printing Harvard Library Notes,	869.62	918.93
General.		
Salaries,		30,700.00
Services and wages (part),	\$58,677.68	
Equipment and supplies,	2,430.35	
Stationery, postage, telephone and telegraph,	2,461.16	
Binding,	6,400.06	
General printing,	1,340.43	
Printed cards,	3,128.95	
Freight, express, etc.,	348.20	
Laundry,	91.00	
Photostat,	681.96	
Travelling Expenses,	43.08	
Sundries,	155.10	75,757.97
Amount carried forward,		\$176,660.34

LIBRARY (CONTINUED)

EXPENDITURE

Amount brought forward,		\$176,660.34
Building expenses, Widener Library :		
Repairs,	\$590.66	
Caretaking,	19,464.39	
Water, heat, light, power, etc.,	24,335.85	
Repairs to heating equipment,	556.64	44,947.54
University charge :		
Treasurer's Office, care of investments,	\$1,393.74	
Bursar's Office, collections and payments,	720.80	
Inspector of Grounds and Buildings, salary and expenses,	55.07	
Watchmen,	1,154.94	
Engineer,	276.35	
Carpenter,	9.09	
Purchasing Agent,	80.19	3,690.18
		<u>\$225,298.06</u>
Restricted income not used and added to Funds and Gifts,		9,448.24
Restricted income carried to General Suspense to pay overdrafts of former years,		624.55
		<u><u>\$235,370.85</u></u>

SCHEDULE 9

SUMMER SCHOOLS
FACULTY OF ARTS AND SCIENCES

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

School of 1920.

Receipts from students :

Tuition fees.		
General,	\$38,255.00	
Physical Education,	8,275.00	\$46,530.00
Registration fees,		4,854.00
Auditors fees,		3,250.00
Board and room rents, Freshman Halls,	24,896.51	
Surplus historical excursions,	93.06	
Copies of records,	2.00	\$79,625.57
Sale of publication, Case Studies Abnormal Type,		6.58
Amount carried forward,		\$79,632.15

SUMMER SCHOOLS (CONTINUED)

INCOME

Amount brought forward,	\$79,632.15
School of 1920 (<i>continued</i>).	
Interest on balance,	1,392.31
Income of Sayles Fund, Summer Course in Geology, . . .	631.91
	<u>\$81,656.37</u>
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,	200.00
	<u><u>\$81,856.37</u></u>

EXPENDITURE

School of 1920.

Dean's Office :

Salary of Dean,	\$240.00	
Services and wages,	652.81	
Office supplies,	465.36	\$1,358.17
Salaries for Instruction,		30,371.00
General Expenses,		441.95
Public Exercises,		776.26
Hospitality,		837.18
Scholarships,		240.00
Advertising,		523.47
Expenses of Freshman Halls, including Dining Hall,		30,177.71

University charge :

Bursar's Office, collections and payments,	\$212.25	
Inspector's Office Expenses,	95.26	
Carpenter,	15.72	
Purchasing Agent,	36.85	
	<u>\$360.08</u>	
Less amount transferred to Schedule 8,	132.25	227.83
		<u>\$64,953.57</u>
School of Physical Education.		
General,		6,688.08
		<u>\$71,641.65</u>
Restricted income not used and added to Funds and Gifts,		631.91
Surplus of general income carried to General Suspense,		9,582.81
		<u><u>\$81,856.37</u></u>

SCHEDULE 10

ENGINEERING SCHOOL

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds for Salaries and General Purposes.

Harvard Endowment Fund, Engineering School,	\$162.70	
Abbott Lawrence (part),	1,711.93	
James Lawrence (part),	1,410.61	
Gordon McKay Endowment (part),	123,429.50	
Professorship of Engineering,	2,203.52	
Edward Whitney ,	655.67	\$129,573.93

Income of Scholarship and Beneficiary Funds and Gifts, 8,153.48

Gifts for Special Purposes.

Ernest B. Dane gift, research in Sanitary Engineering, interest,	\$25.50	
Gift for Summer Mining Camp, interest,	47.86	

Gifts for research in Cryogenic Engineering.

Gifts,	\$3,800.00	
Other receipts,	2,250.00	6,050.00
		6,122.86

Receipts from students.

Tuition fees,	\$41,915.00	
Laboratory fees,	388.50	
Sale of printed notes,	2.75	
Receipts, Squam Lake Camp,	4,495.72	
Fines, late registration,	30.00	46,831.97

Miscellaneous receipts:

Sale of liquid air,	88.50	
		\$190,770.74

Received from accumulated income of Funds and Gifts to cover

deficits of restricted income,	365.83	
Deficit of general income, Schedule 40,	39,474.52	
		\$230,611.09

EXPENDITURE

From Scholarships and Beneficiary Funds, \$5,175.00

From Gift for Special Purpose.

Gift of Ernest B. Dane , Research in Sanitary Engineering,	291.33	
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General.

Teaching salaries,	\$132,480.00	
Equipment and supplies,	9,640.99	
Stationery, postage, telephone and telegraph,	1,237.48	

Amounts carried forward, \$143,358.47 \$5,466.33

ENGINEERING SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$143,358.47	\$5,466.33
General (continued).		
Services and wages,	21,815.64	
Printing,	2,097.18	
Books and binding,	1,231.54	
Reëstablishing Departments of Engineering and Mining in the University Buildings :		
Engineering,	\$4,631.68	
Mining,	1,189.26	5,820.94
Proctors,		67.00
Instruction and expenses of course in Water-power Engineering,		83.35
Travelling expenses,		1,290.21
Diplomas,		244.50
Insurance on metallurgical apparatus,		118.48
Freight and express,		509.50
Expenses High Tension Laboratory,		10,267.46
Expenses Special Course for Naval Officers,		350.00
Expenses Squam Lake Camp,		6,621.10
Rindge Technical School for use of laboratories,		1,500.00
Sundries,		354.70
Repairs and equipment, buildings,	\$2,133.47	
Caretaking, buildings,	14,808.14	16,941.61
University charge.		
President's Office, salaries and expenses,	\$615.31	
Treasurer's Office, salaries and expenses,	1,648.38	
Bursar's Office, salaries and expenses,	2,123.69	
Inspector's Office, salaries and expenses,	542.36	
Annual Catalogue,	633.79	
Watchmen,	943.81	
Quinquennial Catalogue,	413.81	
Purchasing Agent,	63.70	
Chief Engineer,	226.84	
Carpenter,	89.52	
Regent's Office,	45.70	
Medical Adviser's Office,	255.82	7,602.73
Phillips Brooks House, Schedule 34,	\$176.70	
Gymnasiums, Schedule 35,	675.81	
Stillman Infirmary, Schedule 36,	892.00	1,744.51
		\$227,485.25
Restricted income not used and added to Funds and Gifts,		3,125.84
		<u>\$230,611.09</u>

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds.

Edmund Cogswell Converse Professorship in

Banking, \$7,326.45

Endowment Fund, 3,521.88

James J. Hill Fund, 6,750.00**James J. Hill Professorship of Transportation**, 7,312.08**George H. Leatherbee Lecture Fund**, 3,301.02**Gordon McKay Endowment (part)**, 5,000.00**Isador Straus Memorial**, 542.64**Harvard Endowment Fund — Business School**, 691.22**Harvard Endowment Fund, Nathan****Fechheimer Loan Fund.**

Interest, \$270.00

Loans repaid, 150.00 420.00

Alumni Association Loan Fund (Gifts), 650.00**Anonymous Loan Fund**, 77.65**Daniel A. Buckley Scholarship (part)**, 250.00**Victor Emanuel Chapman Fellowship**, 1,315.86**Harvard Club of Chicago (Gift)**, 300.00**Harvard Club of San Francisco (Gift)**, 350.00**William S. Murphy Scholarship (part)**, 107.50

Student Loan Fund.

Loans repaid, \$1,470.19

Interest, 21.98 1,492.17

George O. May Prizes (Gift), 150.00

Bureau of Business Research Publication Fund.

Sale of publications, \$4,363.43

Interest, 71.88 4,435.31

Bureau of Business Research, **National Wholesale Grocers Association**, receipts, 3,439.04Bureau of Business Research, **American National Retail Jewellers Association Fund**, receipts, 8,147.00Bureau of Business Research, **National Retail Shoe Dealers Association**, receipts, 2,500.00Bureau of Business Research, **Textile Research Fund**, receipts, 674.17 \$58,753.99

Gifts for immediate use :

For deficit. Gifts, \$11,325.00

For courses in printing, 1,756.77

Frederick L. and John C. Olmstead, books, 125.00

Amounts carried forward, \$13,206.77 \$58,753.99

GRADUATE SCHOOL OF BUSINESS (CONTINUED)

INCOME

Amounts brought forward,	\$13,206.77	\$58,753.99
Gifts for immediate use (<i>continued</i>)		
Gifts for Collection of Problem Material:		
Gifts,	\$9,200.00	
Interest,	55.55	
Other receipts,	1,600.39	10,855.94
Gift of Alvan T. Simons , for research:		
Gift,	\$4,627.50	
Interest,	43.42	4,670.92
Receipts from students.		
Tuition fees,	\$96,187.50	
Graduation fees,	20.00	96,207.50
Miscellaneous.		
Sale of pamphlets,		4.80
Appropriation from University,		76,073.98
		\$259,773.90
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,		4,134.92
Overdrafts against sundry funds and gifts carried to General Suspense,		2,605.05
		<u>\$266,513.87</u>

EXPENDITURE

Instruction.		
Salaries of instructing staff,	\$86,766.00	
Compensation for outside lecturers,	5,673.30	
Services of assistants in courses,	9,533.72	\$101,973.02
Accessories of instruction.		
Supplies for class room purposes,	\$1,491.67	
Remodeling and equipping class rooms,	4,769.20	
Traveling expenses for staff,	386.58	
Faculty luncheons and dinners,	1,112.15	
Printing for courses,	565.68	
Services of Proctors,	361.25	
Diplomas,	274.95	
Laboratory of Business Devices,	526.57	
Telephones.	136.60	9,624.65
Business School Library.		
Books and periodicals:		
From general funds,	\$3,788.21	
From special funds,	468.71	\$4,256.92
Binding books and periodicals,	1,524.36	
Library salaries,	2,850.00	
Services of library staff,	10,779.06	
Library equipment, supplies, and expenses,	3,215.03	22,625.37
Amount carried forward,		\$134,223.04

GRADUATE SCHOOL OF BUSINESS (CONTINUED)

EXPENDITURE

Amount brought forward, \$134,223.04

Investigations.

Bureau of Business Research :

From general funds, \$17,543.22
 From special funds, 23,424.75 40,967.97

Students' Division.

Salaries for students' division, \$6,500.00
 Services for students' division, 1,176.92
 Supplies, equipment, and expense, 508.21 8,185.13

Awards to Students.

Victor Emanuel Chapman Memorial Fellow-
 ship, \$1,200.00
 Daniel A. Buckley Scholarship, 250.00
 Harvard Club of Chicago Scholarship, 300.00
 Harvard Club of San Francisco Scholarship, 350.00
 W. S. Murphy Scholarship (part), 107.50
 George O. May Prizes, 150.00
 Nathan Fechheimer Loan Fund, 3,077.37
 Loans to students, 1,835.00 7,269.87

Administration.

Salaries for administration, \$8,800.00
 Services for administration, 14,896.21
 Travelling expense for administration, 2,636.44
 Entertainment, 312.33
 Printing, 4,185.04
 Advertising, 1,152.16
 Telephone and telegraph, 1,008.73
 Postage and express, 638.57
 Equipment and supplies, 4,199.16
 Sundries, 2,130.45 39,959.09

Repairs — buildings used by Business School, \$239.67
 Caretaking — buildings used by Business School, 2,388.07
 Changes in Lawrence Hall, 5,143.36 7,771.10
 Interest on Advances, 435.43

University charge :

President's Office, salaries and expenses, \$1,270.88
 Treasurer's Office, care of investments, 455.35
 Bursar's Office, collections and payments, 3,876.80
 Inspector's Office, salary and expenses, 509.63
 Medical Adviser, salary and expenses, 528.37
 Regent's Office, 94.39
 Watchmen, 97.22
 Carpenter, 84.12
 Annual Catalogue, 633.79
 Quinquennial Catalogue, 65.54

Amounts carried forward, \$7,616.09 \$238,811.63

GRADUATE SCHOOL OF BUSINESS (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$7,616.09	\$238,811.63
University charge (<i>continued</i>).		
Purchasing Agent,	317.25	
Chief Engineer,	23.27	
Janitor,	57.11	8,013.72
Phillips Brooks House, Schedule 34,	\$364.96	
Gymnasiums, Schedule 35,	1,395.83	
Stillman Infirmary, Schedule 36,	1,752.00	3,512.79
		<u>\$250,338.14</u>
Restricted income not used and added to Funds and Gifts,		13,964.11
Restricted income carried to General Suspense to pay overdrafts of former years,		2,211.62
		<u><u>\$266,513.87</u></u>

SCHEDULE 12

SCHOOLS OF ARCHITECTURE AND LANDSCAPE
ARCHITECTURE

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts.

Nelson Robinson, Jr. (part),	\$50,112.49	
Revere Family Memorial:		
Interest,	\$1,185.68	
Other receipts,	28.00	1,213.68
Arthur Rotch ,	1,350.00	
Gurdon Saltonstall ,	3,240.00	
Josiah Stickney ,	636.77	
Henry Flynt (part),	5.46	
Harvard Endowment Fund—School of Landscape Architecture,	105.14	\$56,663.54

Income of Fellowship Funds.

Julia Amory Appleton ,	\$1,484.51	
Charles Eliot ,	1,710.02	
Nelson Robinson, Jr. (part),	2,227.50	
Frederick Sheldon (part),	1,500.00	6,922.03

Amount carried forward, \$63,585.57

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE (CONTINUED)

INCOME

Amount brought forward, \$63,585.57

Income of Scholarship Funds.

Edward Austin (part),	\$1,050.00	
Francis H. Cummings ,	408.02	
Eveleth (part),	250.00	1,708.02

Gift for changes in Robinson Hall.

Gift,	\$5,000.00	
Interest,	25.20	5,025.20

Receipts from students.

Tuition fees. Architecture,	\$7,245.00	
Landscape Architecture,	4,809.00	\$12,054.00
Graduation fees,	40.00	
Laboratory fees,	5.00	
Registration fees,	35.00	12,134.00
		\$82,452.79

Received from accumulated income of Funds and Gifts to cover
deficits of restricted income, 742.99

Received from accumulated income of the Nelson Robinson, Jr.,
Fund to cover in part the deficit of general income, 4,451.63

Remainder of deficit of general income, Schedule 40, 3,383.52

\$91,030.93

EXPENDITURE

From Fellowship Funds.

Julia Amory Appleton ,	\$2,227.50	
Charles Eliot ,	1,620.00	
Nelson Robinson, Jr.	2,227.50	
Frederick Sheldon ,	1,500.00	\$7,575.00

From Scholarship Funds.

Edward Austin Scholarships in Architecture, . .	\$1,050.00	
Francis H. Cummings ,	350.00	
Eveleth ,	250.00	1,650.00

From Scholarships from general funds.

Architectural League,	\$550.00	
University,	1,200.00	1,750.00

From Funds for Special Purposes.

Revere Family Memorial,		1,119.85
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From Appropriations.

Architecture,	\$2,172.51	
Landscape Architecture,	5,029.14	7,201.65

Repairs, Robinson Hall,	\$747.35	
Retaking and Operating Expenses, Robinson Hall, . .	7,584.95	8,332.30

Amount carried forward, \$27,628.80

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE (CONTINUED)

EXPENDITURE

Amount brought forward,		\$27,628.80	
General.			
Salaries,	\$41,340.46		
Services and wages,	2,079.86		
Equipment and supplies,	199.46		
Stationery and postage,	243.55		
Printing,	595.47		
Diplomas,	13.40		
Books,	90.00		
Legal expenses,	225.00		
Sundries,	8.68	44,795.88	
University charge.			
President's Office, salaries and expenses,	\$189.77		
Treasurer's Office, care of investments,	678.06		
Bursar's Office, collections and payments,	1,103.44		
Medical Adviser, salary and expenses,	78.98		
Regent's Office,	14.09		
Annual Catalogue,	253.51		
Quinquennial Catalogue,	61.70		
Purchasing Agent,	13.03		
Inspector of Grounds and Buildings,	43.67		
Watchmen,	190.07		
Engineer,	45.48		
Janitor,	161.24		
Carpenter,	7.21	2,840.25	
Phillips Brooks House, Schedule 34,	\$54.50		
Gymnasiums, Schedule 35,	208.43		
Stillman Infirmary, Schedule 36,	236.00	498.93	
		<u>\$75,763.86</u>	
Restricted income not used and added to Funds and Gifts,		15,267.07	
		<u>\$91,030.93</u>	

SCHEDULE 13

DIVINITY SCHOOL
INCOME AND EXPENDITURE
For the year ended June 30, 1921

INCOME

Income of Funds for Instruction or for General Purposes.

Divinity School balance, interest,	\$690.52	
Endowment,	3,870.56	
Oliver Ames,	918.00	
Hannah C. Andrews,	28.35	
Daniel Austin,	60.21	
Adams Ayer,	54.00	
Joseph Baker,	824.85	
Bussey Professorship,	2,029.54	
Bussey Trust (part),	3,970.44	
Joshua Clapp,	117.61	
Edwin Conant,	270.00	
Dexter Lectureship,	1,379.38	
Frothingham Professorship,	3,169.96	
Abraham W. Fuller,	56.70	
Lewis Gould,	49.19	
John Hancock Professorship,	324.43	
Charles L. Hancock (part),	5,675.57	
Harvard Endowment Fund — Divinity School, .	110.59	
Haven,	270.00	
Samuel Hoar,	56.70	
Hollis Professorship of Divinity,	1,863.97	
Henry P. Kidder,	540.00	
Henry Lienow,	495.99	
Caroline Merriam,	56.70	
John Newgate,	17.98	
Parkman Professorship,	864.86	
Francis Greenwood Peabody Professorship, .	1,370.41	
Plummer Foundation,	1,419.98	
John W. Quinby,	39.64	
Abby Crocker Richmond,	54.00	
John L. Russell,	54.00	
William B. Spooner,	540.00	
Thomas Tileston of New York Endowment, .	2,160.00	
Mary P. Townsend,	283.50	
Winthrop Ward,	113.40	
Winn Professorship,	3,566.05	
Augustus Woodbury Bequest,	56.05	\$37,423.13
Amount carried forward,		\$37,423.13

DIVINITY SCHOOL (CONTINUED)

INCOME

Amount brought forward,		\$37,423.13
Income of Funds for Instruction or for General Purposes (<i>continued</i>).		
Society for Promoting Theological Education Gift.		
Gift,	\$1,500.00	
Interest,	70.25	\$1,570.25
Gift for expenses publishing Harvard Theological		
Studies, Interest,	12.76	1,583.01
Income of Scholarship, Beneficiary and Prize Funds.		
Robert Charles Billings (prizes),	\$174.85	
Abner W. Buttrick,	763.51	
Thomas Cary,	329.24	
George Chapman,	168.43	
Joshua Clapp,	272.38	
Jackson Foundation,	881.71	
J. Henry Kendall,	335.50	
Nancy Kendall,	209.85	
John C. Kimball,	31.05	
William Pomroy,	59.99	3,226.51
Income of Funds and Gifts for Special Purposes.		
Rushton Dashwood Burr,	\$253.10	
Louisa J. Hall,	339.23	592.33
Receipts from Students.		
Tuition fees:		
Regular,	\$2,430.00	
Summer courses,	2,265.00	\$4,695.00
Graduation fees,	80.00	
Divinity Hall, rents,	3,974.53	8,749.53
Appropriation from University,		10,000.00
		<u>\$61,574.51</u>
Received from accumulated income of Funds and Gifts to cover		
deficits of restricted income,		663.44
Credit balance in General Suspense used,		8,935.32
		<u>\$71,173.27</u>

EXPENDITURE

From Scholarship Funds:		
George Chapman,	\$90.32	
Joshua Clapp,	154.83	
Jackson Foundation,	1,000.00	\$1,245.15
From Beneficiary Funds.		
Abner W. Buttrick,	\$700.00	
William Pomroy,	45.00	745.00
From Prize Funds.		
Robert Charles Billings,		200.00
Amount carried forward,		\$2,190.15

DIVINITY SCHOOL (CONTINUED)

EXPENDITURE

Amount brought forward, \$2,190.15

Gift for expenses publishing Harvard Theological Studies, 532.76
General.

Salaries, \$48,150.00

Services and wages, 1,172.35

Equipment and supplies, 58.66

Stationery, postage, telephone and telegraph, . . . 249.55

Printing, 561.96

Contribution American School Oriental Research, . 100.00

Expenses Summer School of 1920, 1,687.52

Conference of College Students proposing to enter
the Ministry, 112.89

Sundries, 140.61

Share Library expenses, Andover Theological Semi-
nary, 1,500.00

53,733.54

Divinity Hall.

Repairs and equipment, land and building, \$1,426.21

Caretaking, land and building, 5,953.83

7,380.04

Divinity Library.

Repairs and equipment, building, \$46.67

Caretaking, building, 1,476.13

1,522.80

University charge.

President's Office, salaries and expenses, \$152.39

Treasurer's Office, care of investments, 439.82

Bursar's Office, collections and payments, 414.55

Medical Adviser, salary and expenses, 63.36

Regent's Office, 11.32

Inspector of Grounds and Buildings, salary and
expenses, 249.79

Annual Catalogue, 380.27

Quinquennial Catalogue, 227.47

Watchmen, 196.46

Janitor, 166.77

Engineer, 47.01

Carpenter, 41.23

Purchasing Agent, 2.30

2,392.74

Semitic Museum, Schedule 30, \$827.99

Phillips Brooks House, Schedule 34, 43.86

Gymnasiums, Schedule 35, 167.37

1,039.22

\$68,791.25

Restricted income not used and added to Funds and Gifts, 2,382.02

\$71,173.27

LAW SCHOOL

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds for Instruction and General Purposes.

Law School balance, interest,	\$5,015.74	
Law School Endowment,	355.75	
Ames Fund,	601.24	
Samuel Ames Bequest,	108.00	
James and Augusta Barnard,	5,431.78	
Bemis Professorship,	6,336.69	
Andreas Blume Bequest,	27.65	
Bussey Professorship,	1,505.03	
Bussey Trust (part),	3,970.44	
Byrne Professorship of Administrative Law, . .	8,721.97	
James C. Carter Professorship,	5,795.55	
Dane Professorship,	988.52	
Harvard Endowment Fund,		
Law School Endowment,	1,023.03	
Gift for salary of Professor or Instructor in Patent Law.		
Gift,	\$12,636.00	
Interest,	178.25	12,814.25
Royall Professorship,	450.41	
Ezra Ripley Thayer Teaching Fellowship, . .	1,448.98	
Weld Professorship,	5,129.73	
Gifts for general expenses,	1,060.00	\$60,784.76

Income of Book Funds and Gifts.

Gift of James Munson Barnard and Augusta Barnard, interest,	\$10.60	
John L. Cadwalader,	1,080.00	
Law School Book,	2,539.13	
Law School Library,	5,400.00	
Harvard Endowment Fund,		
Law School Library,	54.00	
Gifts for purchase of books,	50.00	9,133.73

Income of Scholarship, Beneficiary, Prize Funds and Gifts, . . .	18,170.99	
Tuition fees,		158,036.00
Sale of books,	\$1,534.07	
Sale of Library Catalogue,	20.00	
Sale of Harvard Studies in Jurisprudence,	581.28	
Sale of type,	750.00	
Sale of Quinquennial Catalogue,	18.00	2,903.35
		\$249,028.83

Received from accumulated income of Funds and Gifts to cover

deficits of restricted income,	5,687.78	
		<u>\$254,716.61</u>

LAW SCHOOL (CONTINUED)

EXPENDITURE

From Scholarship, Beneficiary, Prize Funds and Gifts,	\$17,305.02	
Scholarships from unrestricted income,	7,050.00	
Teaching Salaries,	110,350.00	
Library.		
Salaries librarian and assistant librarian,	\$9,400.00	
Services and wages,	10,084.74	
From James Munson Barnard and Augusta		
Barnard Gift, books,	337.56	
James and Augusta Barnard Fund,	5,431.78	
Books from general funds,	11,272.14	
Binding,	3,221.46	
Insurance on books,	190.20	
Equipment and supplies,	503.18	
Stationery, postage and telephones,	155.93	
Freight and express,	1,787.28	
Printing, . . . . .	.75	
Travelling expenses,	33.36	
Sundries,	126.30	42,544.68
Administration and General.		
Salary of Secretary,	\$3,000.00	
Services and wages,	2,193.70	
Equipment and supplies,	542.08	
Stationery, postage, telephone and telegraph,	712.26	
Printing,	1,885.43	
Advertising,	155.00	
Proctors and monitors,	408.10	
Diplomas,	401.50	
Printing Quinquennial Catalogue,	3,492.53	
Dues Association of American Law Schools,	42.00	
Travelling expenses,	1,261.84	
Assistant to Professor,	65.00	
Income of Ames Fund deposited with Dean,	1,100.00	
Blue books,	199.00	
Repairs to telephone system,	500.20	
Sundries,	82.90	16,041.54
Repairs and equipment, buildings,	\$6,502.60	
Caretaking, buildings,	11,646.42	18,149.02
University charge.		
President's Office, salaries and expenses,	\$2,714.38	
Treasurer's Office, care of investments,	697.54	
Bursar's Office, collections and payments,	5,707.08	
Medical Adviser, salary and expenses,	1,128.46	
Regent's Office,	201.59	
Inspector of Grounds and Buildings, salary and expenses,	462.05	
Amounts carried forward,	\$10,911.10	\$211,440.26

LAW SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward,		\$10,911.10	\$211,440.26
University charge (<i>continued</i>).			
Annual Catalogue,	887.30		
Quinquennial Catalogue,	1,486.89		
Watchmen,	678.61		
Janitor,	532.54		
Engineer,	162.38		
Carpenter,	76.26		
Purchasing Agent,	50.57	14,785.65	
Phillips Brooks House, Schedule 34,	\$779.46		
Gymnasiums, Schedule 35,	2,981.15		
Stillman Infirmary Schedule 36,	1,564.00	5,324.61	
			\$231,550.52
Restricted income not used and added to Funds and Gifts,		19,616.59	
Surplus of general income carried to General Suspense,		3,549.50	
			<u>\$254,716.61</u>

SCHEDULE 15

GRADUATE SCHOOL OF EDUCATION

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts for Instruction or for General Purposes.

Charles William Eliot Fund:

Walter F. Baker,	\$3,822.93	
William H. Baldwin, Jr.	94.50	
Andrew Bigelow,	233.89	
Stanton Blake,	236.25	
Harvard Endowment,	40,546.35	
Theodore Lyman,	472.50	
Robert C. McIlwain,	364.70	
Henry S. Nourse,	1,567.37	
William Perkins,	1,417.50	
Ezekiel Rogers,	167.03	
John L. Russell,	1,104.23	
Richard Black Sewall,	17,101.05	
Isaac Sweetser,	2,216.65	
Seth Turner,	236.25	
Gifts for salaries,	3,500.00	
Gifts for Instruction of the Blind,	515.00	\$73,596.20
Amount carried forward,		\$73,596.20

GRADUATE SCHOOL OF EDUCATION (CONTINUED)

INCOME

Amount brought forward, \$73,596.20

Income of Funds and Gifts for Special Purposes.

Charles W. Hubbard Fund, \$501.30

Gift for Expenses of Psycho-Educational Clinic.

Gift, \$3,000.00

Interest, 66.39 3,066.39

Edward Austin Fund, Scholarships, 1,200.00

Gifts for special use.

Interest, \$47.86

Other receipts, 118.84 166.70 4,934.39

Receipts from students.

Tuition fees, \$13,285.00

Graduation fees, 60.00 13,345.00

Miscellaneous.

Bureau Vocational Guidance, receipts, \$3,087.39

Student loans repaid, 100.52 3,187.91

\$95,063.50

Received from accumulated income of Funds and Gifts to cover

deficits of restricted income, 7,255.19

Deficit of general income, Schedule 40, 177.71

\$102,496.40

EXPENDITURE

Administration.

Services and wages, \$7,084.74

Equipment and supplies, 1,313.79

Stationery and postage, 538.93

Printing, 587.25

Sundries, 135.92 \$9,660.63

Instruction.

From general funds, \$45,000.00

From special funds, 6,700.00 51,700.00

Printing, 1,955.75

Library.

From general funds, \$2,297.43

From special funds, 468.89 2,766.32

Laboratory of Educational Psychology.

From special funds, 374.19

Psycho-Educational Clinic.

From general funds, \$474.25

From special funds, 6,746.87 7,221.12

Bureau of Vocational Guidance, 8,610.18

Collection of Tests and Measures.

From special funds, 167.22

Amount carried forward, \$82,455.41

GRADUATE SCHOOL OF EDUCATION (CONTINUED)

EXPENDITURE

Amount brought forward,		\$82,455.41
Student Aids.		
From special funds.		
Edward Austin Scholarships,	\$1,200.00	
From general funds,	2,335.21	3,535.21
Contingencies.		
Tuition, courses in Radcliffe,	\$700.00	
Interest on advances,	119.34	
Diplomas,	80.50	
Telephones,	231.09	
Sundries,	1,443.79	2,574.72
Repairs, buildings,	\$422.08	
Caretaking and operating expenses, buildings,	2,718.81	
Changes in Palfrey House,	716.68	
Changes in Lawrence Hall,	6,225.16	10,082.73
University charges.		
President's Office, salaries and expenses,	\$347.98	
Treasurer's Office, care of investments,	329.82	
Bursar's Office, collections and payments,	1,265.75	
Medical Adviser, salary and expenses,	144.64	
Regent's Office,	25.84	
Inspector's Office, salary and expenses,	383.45	
Annual Catalogue,	380.27	
Watchman,	76.48	
Janitor,	57.12	
Engineer,	18.30	
Carpenter,	63.29	
Purchasing Agent,	60.95	3,153.89
Phillips Brooks House, Schedule 34,	\$99.91	
Gymnasiums, Schedule 35,	382.12	
Stillman Infirmary, Schedule 36,	180.00	662.03
		\$102,463.99
Restricted income not used and added to Funds and Gifts,		32.41
		<u>\$102,496.40</u>

MEDICAL SCHOOL

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds for Instruction and General Purposes.

Anonymous Fund in the Department of Theory and Practice,		\$559.66
Edward M. Barringer (part),		1,134.69
Robert C. Billings (part),		3,800.00
Brinckerhoff Fund,		278.53
John B. and Buckminster Brown,		3,645.38
Bullard Professorship of Neuropathology (part),		4,266.33
Herbert L. Burrell,		336.69
Joseph R. DeLamar Bequest (part),		54,983.36
Calvin and Lucy Ellis,		23,312.22
George Fabyan Foundation (part),		7,300 00
Charles F. Farrington (part),		1,100.00
Samuel E. Fitz,		99.14
George W. Gay Lecture Fund Medical Ethics,		62.80
Rebecca A. Greene Bequest,		3,016.12
Henry Harris ($\frac{1}{2}$ income),		808.35
Harvard Endowment Fund:		
Restricted to Medical School,		666.58
Harvard Medical Alumni,		674.90
Harvard Medical Alumni (gift),		2,425.00
Hersey Professorship ($\frac{2}{3}$ income),		436.69
George Higginson,		5,993.51
John Homans Memorial,		2,830.36
Silas Arnold Houghton Professorship,		1,361.72
George S. Hyde,		2,701.08
Jackson Professorship of Clinical Medicine,		3,736.42
Henry Jackson Endowment (part),		2,032.26
Hamilton Kuhn Memorial,		10,121.72
Walter Augustus Lecompte Professorship (part),		2,955.21
William O. Moseley,		3,002.51
New subscription,		2,097.90
Lyman Nichols,		541.08
George F. Parkman, Medical Fund,		465.53
Henry L. Pierce (Residuary),		2,117.72
Professorship of Diseases of the Nervous System, in memory of Dr. James Jackson Putnam,		2,306.72
John D. Rockefeller,		54,000.00
Thomas Morgan Rotch Professorship (gift),		272.12
Amount carried forward,		\$205,442.30

MEDICAL SCHOOL (CONTINUED)

INCOME

Amount brought forward, \$205,442.30

Income of Funds for Instruction and General Purposes

(continued).

Dr. Ruppaner,	504.14	
School of Comparative Medicine,	442.37	
Henry Francis Sears Fund (part),	721.47	
Frederick C. Shattuck (part),	6,175.00	
George C. Shattuck,	5,831.80	
Francis Skinner,	2,322.59	
James Stillman Professorship,	6,460.94	
Mary W. Swett,	851.31	
Samuel W. Swett,	1,080.00	
Quincy Tufts,	108.00	
Edward Wigglesworth Professorship,	3,366.74	
Charles Wilder,	5,137.20	
Henry Willard Williams,	3,408.27	
Morrill Wyman Medical Research (part),	6,754.52	
Gifts for salaries,	1,310.00	\$249,916.65
Income of Fellowship Funds,		14,170.77
Income of Funds and Gifts for Scholarships and Aids,		12,551.25
Income of Prize Funds,		867.36
Income of Sundry Funds for Special Purposes.		
Edward Austin (Bacteriological Laboratory),	\$611.33	
Robert C. Billings (part),	1,200.00	
J. Ingersoll Bowditch,	542.11	
Boylston, for Medical Books,	117.34	
Bullard Professorship (part),	554.30	
Colburn Fund,	5,640.95	
Dr. John C. Cutter Bequest:		
Interest (part),	\$325.53	
Royalties on publications,	26.95	352.48
Peter P. F. Degrand (part),		200.00
Joseph R. DeLamar Bequest (part):		
Interest (part),	\$78,935.45	
Other receipts,	351.25	79,286.70
Duplicate Book Fund.		
Sale of books,		608.10
Thomas Dwight Memorial,		706.64
George Fabyan Foundation for Comparative		
Pathology (part),	5,879.20	
George Fabyan Foundation, Special,	730.08	
Charles F. Farrington (part),	1,857.96	
Flattery Research Fund (part),	1,669.81	
F. B. Greenough (for surgical research),	324.00	
Amounts carried forward,	\$100,281.00	\$277,506.03

MEDICAL SCHOOL (CONTINUED)

INCOME

Amounts brought forward, \$100,281.00 \$277,506.03

Income of Sundry Funds for Special Purposes

(continued).

Harvard Endowment Fund.

For research,	461.16
Department of Dermatology, . . . . .	.54
Thomas Dwight Memorial, . . . . .	.27
Department of Pathology,	27.00
School of Tropical Medicine,	54.60

Henry Jackson Endowment (part), 3,754.33

Hamilton Kuhn (part), 312.65

Walter Augustus Lecompte Professorship of

Otology (part), 157.29

Medical Library, 163.19

Charles S. Minot Bequest, 139.32

E. D. Morgan Gift, Pathological Laboratory, . . 414.07

Repayments Anatomical Laboratory, 370.45

“ Bacteriological Laboratory, 220.00

“ Chemical Laboratory, 1,344.95

“ Neuropathological Laboratory, 41.70

“ Pathological Laboratory, 13.00

“ Comparative Pathological Laboratory :

Interest, \$82.59

Other receipts, 1,508.75 1,591.34

“ Pharmacological Laboratory, 134.00

“ Physiological Laboratory, 854.72

“ Department of Medicine Laboratory, . . 25.90

“ Surgical Laboratory, 109.98

Proctor, for the study of Chronic Diseases, . . . 3,920.78

Maurice H. Richardson Memorial, 180.25

Henry Francis Sears Fund for Pathology (part), 1,168.53

James Skillen Memorial, 628.56

Surgical Laboratory Fund.

Interest, \$270.00

Gifts for income, 2,000.00 2,270.00

William H. Thorndike, Surgery, 361.85

Zoe D. Underhill Research, 542.27

Warren Fund for Anatomical Museum, 858.01

James C. White Bequest, 317.41

William J. and Georgianna B. Wright, . . 4,676.75

Morrill Wyman Medical Research (part), . . . 240.00

School of Tropical Medicine.

James C. Melvin Fund, interest, \$2,924.86

Frederick C. Shattuck Fund,

interest (part), 1,581.56

Amounts carried forward, \$4,506.42 \$125,635.87 \$277,506.03

MEDICAL SCHOOL (CONTINUED)

INCOME

Amounts brought forward, \$4,506.42 \$125,635.87 \$277,506.03

Income of Sundry Funds for Special Purposes
(continued).

School of Tropical Medicine (continued).

Gifts,	4,000.00		
Other receipts,	911.95	9,418.37	135,054.24

Income of Gifts for Special Use.

Gifts,	\$34,777.49		
Interest and other receipts,	31,789.64		66,567.13

Receipts from students.

Tuition Fees. *			
Regular courses,	\$96,924.65		
Dental students,	11,150.00		
Division of Medical Sciences,	1,397.00	\$109,471.65	
Matriculation fees,		785.00	
Examination fees,		6.00	
Microscope fees,		1,704.00	
Laboratory fees and supplies.			
Anatomy,	\$6.00		
Bacteriology,	3.00		
Histology,	219.00		
Physiology,	210.00		
	\$438.00		

Less Fees in Biological Chemistry credited

in 1919-20 and returned in 1920-21,	10.36	427.64	112,394.29
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Miscellaneous receipts.

Peter Bent Brigham Hospital for library service, \$800.00			
Appropriation from University	25,000.00	25,800.00	
			\$617,321.69

Received from accumulated income of Funds and Gifts to cover			
deficits of restricted income,			26,866.14
Overdrafts against sundry funds and gifts carried to General Sus-			
pense,			10,282.03
Credit balances of laboratory fees in General Suspense used, . . .			116.53
Deficit of general income, Schedule 40,			16,022.80
			<u>\$670,609.19</u>

EXPENDITURE

From Fellowship Funds,	\$2,312.50
From Scholarship and Aid Funds and Gifts,	9,905.00
From Prize Funds,	10.00
From Sundry Funds for Special Purposes.	
Edward Austin (Bacteriological Laboratory),	\$493.83
Robert C. Billings,	1,200.00
J. Ingersoll Bowditch, Physiology,	540.71
Amounts carried forward,	<u>\$2,234.54</u> <u>\$12,227.50</u>

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$2,234.54	\$12,227.50
From Sundry Funds for Special Purposes (<i>continued</i>).		
Boylston, for Medical Books,	38.07	
Bullard Professorship of Neuropathology (part),	554.30	
Dr. John C. Cutter Bequest (part),	472.92	
Joseph R. DeLamar Fund,	27,100.10	
Peter P. F. Degrand Fund, books,	301.05	
Thomas Dwight Memorial,	775.40	
Duplicate Book Fund,	718.24	
George Fabyan Foundation for Comparative Pathology (part),	700.00	
George Fabyan Foundation, Special,	700.00	
Charles F. Farrington (part),	1,089.78	
F. B. Greenough Fund,	324.00	
Walter Augustus Lecompte Professorship of Otolary (part),	157.29	
Harriet Newell Lowell,	464.03	
E. D. Morgan Gift to Pathological Laboratory,	67.22	
Repayment Anatomical Laboratory,	372.05	
“ Bacteriological Laboratory,	220.00	
“ Chemical Laboratory,	1,344.95	
“ Department Medicine Laboratory,	25.90	
“ Neuropathological Laboratory,	41.70	
“ Pathological Laboratory,	13.00	
“ Comparative Pathological Laboratory,	1,969.14	
“ Pharmacological Laboratory,	134.00	
“ Physiological Laboratory,	854.72	
“ Surgical Laboratory,	109.98	
Proctor, for the study of Chronic Diseases,	1,823.43	
School of Tropical Medicine,	\$19,769.98	
Less paid for salaries,	13,675.00	6,094.98
Henry Francis Sears Fund for Pathology (part),	1,168.53	
Surgical Laboratory,	1,440.31	
Zoe D. Underhill Fund,	584.03	
Morrill Wyman Medical Research (part),	240.00	
Warren Anatomical Museum:		
Henry Jackson Endowment (part),	2,310.31	54,443.97
From Sundry Gifts for Special Purposes,		65,326.70
From fees received for use of microscopes,		1,820.53
Appropriations.		
Advertising and catalogues,	\$1,174.47	
Anatomy,	7,494.03	
Animal Farm,	2,540.00	
Amounts carried forward,	\$11,208.50	\$133,818.70

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward, \$11,208.50 \$133,818.70

Appropriations (*continued*).

Books and service for the library,	5,480.00	
Physiology,	7,691.47	
Comparative Physiology,	1,280.00	
Biological Chemistry,	5,562.45	
Bacteriology,	2,660.00	
Pathology,	4,013.81	
Preventive Medicine and Hygiene,	5,366.66	
Pharmacology,	3,665.24	
Pediatrics,	96.58	
Surgery,	3,795.97	
Obstetrics,	27.00	
Diseases of the Nervous System,	4,173.48	
Medicine,	1,977.73	56,998.89

Administrative expenses.

Salaries,	\$5,187.50	
Services and wages,	4,943.00	
Office supplies and expenses,	2,273.71	12,404.21

General.

Salaries for instruction:

From Edward Hickling Brad- ford Fellowship,	\$1,250.00	
Arthur Tracy Cabot Fellow- ship,	1,041.68	
Charles Follen Folsom Fel- lowship,	575.00	
Sundry Funds and Gifts,	194,388.79	
General Income,	82,006.19	\$279,261.66

Stationery, postage, telephone and telegraph,	2,436.93	
Printing,	329.69	
Boston Medical Library,	200.00	
Diplomas,	245.50	
Dues Association of Medical Colleges,	50.00	
Blue books,	158.80	
Machine shop,	257.93	
Equipment and supplies,	627.96	
Advertising,	61.80	
Repairs, Van Dyke and Villa Streets,	221.99	
Travelling Expenses,	113.00	
Adjustment to repay restricted funds for amount of income used in 1919-20,	330.76	
Sundries,	155.71	
Repairs and equipment, buildings,	8,483.65	

Amounts carried forward, \$292,935.38 \$203,221.80

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward, \$292,935.38 \$203,221.80

General (*continued*).

Caretaking, land and buildings,	48,699.18	
Building "B" changes,	84.42	
" "C" " 	2,123.18	
" "E" " 	6,277.75	350,119.91
Retiring allowance,		750.00
Interest on advances,		716.35
University charge.		
President's Office, salaries and expenses,	\$1,262.26	
Treasurer's Office, care of investments,	3,182.15	
Bursar's Office, collections and payments,	5,199.27	
Inspector of Grounds and Buildings, salary and expenses,	1,086.07	
Carpenter,	179.25	
Annual Catalogue,	1,140.81	
Quinquennial Catalogue,	1,238.86	
Purchasing Agent,	80.35	13,369.02
		\$568,177.08
Restricted income not used and added to Funds and Gifts,		101,973.41
Restricted income carried to General Suspense to pay overdrafts of former years,		458.70
		<u>\$670,609.19</u>

SCHEDULE 17

MEDICAL SCHOOL, COURSES FOR GRADUATES

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Receipts from students.

Tuition and other fees.

For instruction in 1920-21, \$51,059.49

For instruction in 1921-22, 15,147.47 \$66,206.96

Miscellaneous receipts.

Interest on balance, \$602.79

Receipts for printing, 486.05 1,088.84

\$67,295.80

Credit balance in General Suspense used 16,937.85

\$84,233.65

MEDICAL SCHOOL, COURSES FOR GRADUATES
(CONTINUED)

EXPENDITURE

Administrative expenses.

Salaries for administration,	\$1,440.00	
Services and wages,	4,805.76	
Equipment and supplies,	1,042.41	
Stationery and postage,	484.99	
Printing supplies,	1,958.40	
Sundries,	96.55	\$9,828.11

General.

Salaries for instruction,	\$49,531.10	
Services and wages,	6,950.01	
Equipment and supplies,	803.13	
Advertising,	1,561.30	
Travelling expenses,	404.50	
Sundries,	8.03	59,258.07
		<u>\$69,086.18</u>

1921-22 general income received in advance and carried to General

Suspense,	15,147.47	
		<u>\$84,233.65</u>

SCHEDULE 18

MEDICAL SCHOOL HEAT AND POWER PLANT

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Receipts from the sale of heat and power,	<u>\$190,575.08</u>
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EXPENDITURE

Expenses of heat and power plant,	<u>\$190,575.08</u>
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COLLIS P. HUNTINGTON MEMORIAL HOSPITAL

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts.

Memorial Cancer Hospital Endowment,	\$6,794.12	
Memorial Cancer Hospital Proctor Maintenance Fund,	200.00	
Francis Bartlett Free Bed Fund,	270.00	
T. Jefferson Coolidge Fund for Research,	108.00	
Caroline Brewer Croft Fund,	4,969.35	
William Endicott Fund,	1,350.00	
Lawrence Carteret Fenno Fund,	1,080.00	
Lawrence Carteret Fenno Free Bed Fund,	270.00	
Flattery Research Fund (part),	750.00	
Franklin H. Hooper Free Bed Fund,	270.00	
Amos Lawrence Hopkins Free Bed Fund,	270.00	
Maria D. Lockwood Memorial,	2,739.37	
James Ewing Mears Bequest,	478.55	
George von L. Meyer Bequest,	135.00	
Julia M. Moseley Fund,	875.00	
Clara Endicott Payson Memorial Free Bed Fund,	270.00	
Emily J. Proctor Gift,	140.72	
Research Laboratory Fund,	458.36	\$21,428.47
Memorial Cancer Hospital New Laboratory Building Gifts.		
Gifts,	\$115,025.00	
Interest,	2,036.96	\$117,061.96
Gifts for salaries,	2,000.00	
" current use,	16,725.00	
" services of technician,	1,980.00	
" expenses of social service worker,	50.00	137,816.96

Miscellaneous.

Commonwealth of Massachusetts, for service rendered,	1,506.95	
		\$160,752.38

Received from the accumulated income of Funds and Gifts to cover

deficits of restricted income,	34,175.32	
		<u>\$194,927.70</u>

EXPENDITURE

Salaries,	\$17,675.02	
Cash to Treasurer of Collis P. Huntington Memorial Hospital,	60,000.00	
Construction of New Laboratory Building,	35,054.30	\$112,729.32
		<u>\$112,729.32</u>
Restricted income not used and added to Funds and Gifts,	82,198.38	
		<u>\$194,927.70</u>

DENTAL SCHOOL

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts.

Dental School Endowment (1880),	\$509.65	
Dental School Endowment (1911),	1,507.36	
Dental School Endowment of the Class of 1886 ,	2.70	
" " " " " " 1888 ,	5.40	
" " " " " " 1891 ,	5.40	
" " " " " " 1892 ,	5.40	
" " " " " " 1893 ,	5.40	
" " " " " " 1895 ,	9.07	
" " " " " " 1901 ,	1.35	
" " " " " " 1904 ,	1.35	
" " " " " " 1907, . . . . .	.54	
" " " " " " 1909 ,	2.70	
Harvard Endowment Fund, Dental School ,	30.13	
for housing collection,	2.16	
for Eugene Hanes Smith Scholarship ,	91.37	
Harvard Dental Alumni Endowment		
Interest,	\$342.63	
Gift for income,	10.00	352.63
John D. Bryant ,	675.38	
Helen Collamore ,	545.40	
Maria Antoinette Evans Bequest ,	1,001.71	
Caroline S. Freeman Bequest ,	270.00	
Norman H. George Bequest ,	552.90	
Katherine C. Pierce Endowment ,	567.65	
Proctor Bequest ,	27.00	
Mary F. Russell Bequest ,	270.00	
Joseph Warren Smith, Jr. ,	557.55	
Henry C. Warren Endowment ,	1,242.00	
Daniel A. Buckley Scholarships (part) ,	300.00	
Joseph Eveleth Scholarship (part) ,	225.00	
Eugene Hanes Smith Scholarship ,	120.58	
Gift for Expenses of Visiting Committees,	1,532.50	\$10,420.28

Receipts from students.

Tuition fees,	\$37,570.00	
Less transferred to Medical School, 11,150.00	\$26,420.00	
Chemistry, breakage and supplies,	4,314.38	
Mechanical and operative dentistry, breakage and supplies,	1,527.66	
Biology, laboratory fees,	400.00	
Amounts carried forward,	\$32,662.04	\$10,420.28

DENTAL SCHOOL (CONTINUED)

INCOME

Amounts brought forward, \$32,662.04 \$10,420.28

Receipts from students (*continued*).

Dental Laboratory, laboratory fees,	1,175.00	
Examination fees,	54.00	
Oral Anatomy, laboratory fees,	186.00	
Registration fees,	35.00	
Duplicate diplomas,	10.00	34,122.04
Fees from Infirmary,		24,073.80
Sale of gold and platinum	\$2,615.11	
“ radiographs,	2,235.00	
“ Quinquennial Catalogue,	596.10	
Interest on special bank deposit,	67.36	
Use of building by State Board,	100.00	
Sundry receipts,	455.77	6,069.34
Appropriation from University,		6,000.00
		<u>\$80,685.46</u>
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,		85.00
Deficit of general income, Schedule 40,		39,006.77
		<u><u>\$119,777.23</u></u>

EXPENDITURE

From Funds and Gifts.

Daniel A. Buckley Scholarships,	\$300.00	
Joseph Eveleth Scholarships,	225.00	
E. H. Smith Scholarship,	150.00	
Y. M. C. A. Scholarship,	85.00	
Gifts for Expenses of Visiting Committees,	670.69	\$1,430.69

Dean's Office.

Services and wages,		2,086.64
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General.

Salaries for instruction,	\$47,965.00
Services and wages,	15,595.43
Equipment and supplies,	18,211.27
Stationery, postage, telephone and telegraph,	779.11
Printing,	4,202.07
Advertising,	1,839.40
Books and binding,	208.46
Laundry,	925.02
Diplomas,	116.35
Luncheon,	192.00
Professional Services,	100.00
Supplies for laboratory of Biology,	219.26
Rent of piano,	45.00
Dues to Institute of Dental Teachers,	20.00

Amounts carried forward, \$90,418.37 \$3,517.33

DENTAL SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$90,418.37	\$3,517.33
General (<i>continued</i>).		
Refunds to patients,	148.75	
Proctors,	49.00	
Travelling expenses,	157.00	
Dues to Dental Faculties Association of American Universities,	50.00	
Contribution for support of Paris publication, . .	50.00	
Part cost of Dental Index,	75.00	
Sundries,	352.87	91,300.99
Interest on advances, general school account,	\$4,381.50	
Interest on advances, building account,	5,201.01	9,582.51
Repairs and equipment, buildings,	\$869.09	
Caretaking, land and buildings,	10,941.23	11,810.32
University charge.		
President's Office, salaries and expenses,	667.07	
Treasurer's Office, care of investments,	256.13	
Bursar's Office, collections and payments,	846.99	
Inspector of Grounds and Buildings, salary and ex- penses,	50.01	
Carpenter,	8.26	
Annual Catalogue,	253.51	
Quinquennial Catalogue,	210.76	
Purchasing Agent,	9.74	2,302.47
		\$118,513.62
Restricted income not used and added to Funds and Gifts,		1,263.61
		<u>\$119,777.23</u>

BUSSEY INSTITUTION
INCOME AND EXPENDITURE
For the year ended June 30, 1921

INCOME

Income of Funds and Gifts.

Bussey Trust (part),	\$7,940.88	
Bussey Endowment,	7,198.42	
Harvard Endowment Fund.		
Anna C. Ames Memorial Scholarship, . . .	89.48	
For books,	2.21	
For Harvard Forest,	20.25	
Anna C. Ames Memorial Scholarship,	588.17	
Mrs. William H. Bliss,	2,756.88	
George H. Emerson Scholarship (part), . . .	400.00	
Priscilla Clark Hodges Scholarship,	252.67	
Gordon McKay Endowment (part),	15,000.00	
Gifts for salaries,	1,200.00	\$35,448.96
Gifts raised by Visiting Committee, interest, . . .	\$36.77	
Forestry operations at Petersham,	7,445.23	
Sale of house at Harvard Forest,	3,047.45	10,529.45
Tuition fees,	\$2,850.00	
Graduation fees,	40.00	
Rent of Antitoxin stable,	1,008.32	
Rent of barn,	50.00	
Rents of dormitory rooms,	1,277.55	
Rent of house,	600.00	
Rent of Pasture,	70.00	
Laboratory fees,	42.50	
Miscellaneous receipts,	199.40	6,137.77
Appropriation from University,		5,000.00
		\$57,116.18
Received from accumulated income of Funds and Gifts to cover		
deficits of restricted income,		113.53
Credit balances in General Suspense used,		1,203.77
Deficit of general income, Schedule 40,		10,472.98
		\$68,906.46

EXPENDITURE

From Scholarship Funds.

Anna C. Ames Memorial,	\$300.00	
Mrs. William H. Bliss,	1,125.00	
George H. Emerson,	400.00	
Priscilla Clark Hodges,	112.50	\$1,937.50
Amount carried forward,		\$1,937.50

BUSSEY INSTITUTION (CONTINUED)

EXPENDITURE

Amount brought forward,		\$1,937.50
From Funds and Gifts for special purposes.		
Forestry operations at Petersham,	\$8,649.00	
Repairs to buildings at Harvard Forest paid from special account,	3,047.45	
Gift for expenses experimental garden in plant genetics,	150.30	11,846.75
Scholarships from unrestricted income,		150.00
Salaries,	\$29,050.00	
Services and wages,	5,480.86	
Equipment and supplies,	5,205.03	
Stationery, postage, telephone and telegraph,	267.68	
Printing,	194.88	
Books and binding,	1,149.07	
Labor and teaming,	1,198.80	
Laundry,	47.43	
Express,	43.33	
General expenses, Department of Forestry,	264.42	
Roadmaking at Petersham,	700.00	
Sundries,	120.62	43,722.12
Repairs, buildings,	\$903.28	
Caretaking and operating expenses, buildings,	7,199.74	8,103.02
University charge.		
President's Office, salaries and expenses,	\$43.13	
Treasurer's Office, care of investments,	459.53	
Bursar's Office, collections and payments,	312.77	
Annual Catalogue,	126.76	
Quinquennial Catalogue,	33.41	
Purchasing Agent,	1.52	977.12
		\$66,736.51
Restricted income not used and added to Funds and Gifts,		2,169.95
		<u>\$68,906.46</u>

SCHEDULE 22

ARNOLD ARBORETUM
INCOME AND EXPENDITURE
For the year ended June 30, 1921

INCOME

Income of Funds and Gifts.

Arnold Arboretum,	\$6,785.10	
Arnold Arboretum Endowment (1917),	17,384.20	
James Arnold,	8,992.84	
Arboretum Construction Gifts, interest,	5,384.07	
Robert Charles Billings,	709.00	
William L. Bradley Fund,	1,136.16	
Bussey, for the Arnold Arboretum,	124.63	
Helen Collamore Bequest,	136.35	
Maria Antoinette Evans Bequest	1,001.71	
Harvard Endowment Fund, Stephen M. Weld Memorial,	617.65	
Massachusetts Society for Promoting Agriculture, .	499.39	
Mary Robeson Sargent,	270.00	
Francis Skinner,	1,080.00	
Francis Skinner, Jr. Bequest,	540.00	
Bayard and Ruth S. Thayer,	1,255.00	
Edward Whitney,	80.35	\$45,996.45
Gifts for present use,	\$21,175.00	
Gifts for purchase of Bussey land, interest,	414.50	
Gift for expenses of expedition to Australasia (interest),	22.72	21,612.22
Subscriptions to Bulletins of Popular Information,	\$493.18	
Sale of Journal,	244.94	
Sale of sundry publications,	1,141.57	
Sale of Library Catalogue,	80.00	
Sale of wood,	68.00	
Sale of surplus material,	4,735.10	
Sale of books,	150.00	
Sale of photographs,	22.00	
Sale of herbarium specimens,	1,362.70	
Fees for courses of lectures,	45.00	
Miscellaneous receipts,	14.25	8,356.74
		\$75,965.41
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,		251.45
		<u>\$76,216.86</u>

ARNOLD ARBORETUM (CONTINUED)

EXPENDITURE

From Mary Robeson Sargent Fund,	\$317.20	
From Edward Whitney Fund,	70.00	
From Sears Gift for Library,	125.78	
For expedition to Australasia,	148.39	\$661.37
General.		
Salaries,	\$9,400.00	
Services and wages,	9,948.54	
Equipment and supplies,	5,370.41	
Stationery, postage, telephone and telegraph, . . .	336.50	
Labor and teaming,	21,727.74	
General printing,	650.05	
Expenses of expeditions,	1,097.15	
Freight, express, etc.,	367.57	
Bradley Bibliography of Trees,	1,888.27	
Premium on liability insurance,	123.54	
Printing bulletins and expenses of mailing same, . .	789.66	
Printing Quarterly,	478.71	
Sundries,	162.96	
Caretaking and operating expenses, buildings, . .	1,329.29	
Repairs, buildings,	371.88	54,042.27
University charge.		
Treasurer's Office, care of investments,	\$465.09	
Bursar's Office, collections and payments,	337.32	
Purchasing Agent, . . . . .	.47	802.88
		\$55,506.52
Restricted income not used and added to Funds and Gifts,	874.49	
Surplus of general income added to Arboretum Construction Gifts, .	19,835.85	
		<u>\$76,216.86</u>

SCHEDULE 23

BOTANIC GARDEN

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds.

Botanic Department ($\frac{5}{8}$ income),	\$1,342.58	
Lowell, for a Botanic Garden,	3,730.05	
John L. Russell ($\frac{1}{4}$ income),	27.00	
Interest on mortgage,	25.00	\$5,124.63
Material supplied courses in Botany,	\$261.00	
Micellaneous receipts,	12.00	273.00
		<u>\$5,397.63</u>
Deficit of general income, Schedule 40,		2,257.50
		<u>\$7,655.13</u>

EXPENDITURE

Labor,	\$5,119.37	
Equipment and supplies,	504.93	
Stationery, postage, telephone and telegraph,	101.37	
Caretaking and operating expenses, buildings,	1,367.38	
Repairs and equipment, buildings,	7.95	
Express and cartage,	39.49	
Interest on advances,	411.42	
Sundries,	4.80	\$7,556.71
University charge.		
Treasurer's Office, care of investments,	\$56.68	
Bursar's Office, collections and payments,	41.74	\$98.42
		<u>\$7,655.13</u>

SCHEDULE 24

BOTANICAL MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Botanical Museum balance, interest,	\$85.84	
Gifts for present use.		
Gifts for Botanical Museum,	3,884.16	
Gift for Cases, interest,	22.58	\$3,992.58
		<u>\$3,992.58</u>
Credit balance in General Suspense used		1,046.93
		<u>\$5,039.51</u>

BOTANICAL MUSEUM (CONTINUED)

EXPENDITURE

Services and wages,	\$2,350.00	
Equipment and supplies,	167.40	
Stationery, postage, telephone, etc.,	27.06	
Printing,	10.46	
Work on cases,	2,132.45	
Special services,	300.00	\$4,987.37
University charge.		
Bursar's Office, collections and payments,	\$29.46	
Purchasing agent, . . . . .	.10	29.56
		\$5,016.93
Restricted income not used and added to Funds and Gifts,		22.58
		<u>\$5,039.51</u>

SCHEDULE 25

GRAY HERBARIUM

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds.

Gray Herbarium balance, interest,	\$628.05	
Robert Charles Billings,	810.00	
Helen Collamore Bequest,	81.81	
Asa Gray Memorial,	1,793.39	
Asa Gray Professorship of Systematic Botany,	1,159.92	
Herbarium,	1,115.42	
Rose Hollingsworth,	27.00	
Sarah E. Potter Endowment,	10,880.46	
John L. Russell ($\frac{3}{4}$ income),	81.00	\$16,577.05
Gift for construction, interest,		41.75
Gifts for immediate use,		1,535.00
Asa Gray's copyrights,	\$566.01	
Sale of card index,	2,151.61	
" other publications,	108.95	
" duplicate books and pamphlets,	69.96	
Miscellaneous receipts,	108.73	3,005.26
		<u>\$21,159.06</u>
Received from accumulated income of Funds and Gifts to cover		
deficits of restricted income,		125.06
		<u>\$21,284.12</u>

GRAY HERBARIUM (CONTINUED)

EXPENDITURE

From **Asa Gray** Professorship of Systematic Botany
Fund.

Salary of Asa Gray Professor (part),	\$1,159.92	
From Gift for construction,	166.81	
Salaries,	\$4,673.08	
Services and wages,	5,501.68	
Equipment and supplies,	1,287.26	
Stationery, postage, telephone and telegraph,	169.78	
Printing,	1,625.70	
Books,	751.45	
Binding,	176.65	
Explorations,	389.70	
Sundries,	5.09	
Repairs, buildings,	145.03	
Caretaking and operating expenses, buildings,	2,154.22	16,879.64
University charge.		
Treasurer's Office, care of investments,	\$180.61	
Bursar's Office, collections and payments,	171.85	
Inspector of Grounds and Buildings, salary and expenses,	13.70	
Engineer,	27.98	
Carpenter,	2.26	
Purchasing Agent,	1.20	397.60
		\$18,603.97
Surplus of general income carried to General Suspense,	2,680.15	
		<u>\$21,284.12</u>

OBSERVATORY

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts.

Advancement of Astronomical Science (1901), . . .	\$179.55		
Advancement of Astronomical Science (1902), . . .	604.00		
Amory Astronomical Fund,	3,438.94		
Thomas G. Appleton,	270.00		
J. Ingersoll Bowditch,	135.00		
Uriah A. Boyden,	9,990.00		
Henry Draper Memorial:			
Interest,	\$1,620.00		
Gifts for income,	4,000.00	5,620.00	
J. Rayner Edmands,	54.76		
Charlotte Harris,	108.00		
Harvard Endowment Fund, Library of Observatory,	8.75		
Haven,	2,430.00		
James Hayward,	1,134.00		
Observatory Endowment,	2,700.00		
Paine Professorship,	2,840.40		
Robert Treat Paine,	14,792.33		
Edward B. Phillips,	6,029.21		
Edward C. Pickering Bequest,	17.12		
E. C. Pickering Fellowship,	571.84		
Josiah Quincy,	613.12		
James Savage ($\frac{1}{4}$ net income),	492.00		
David Sears (1845),	1,557.90		
David Sears (1916),	1,350.00		
Augustus Story,	722.52	\$55,659.44	
Charles S. Hinchman Fellowship, interest,	\$20.00		
Gift for publishing Henry Draper Catalogue.			
Gift,	\$2,025.00		
Interest,	30.12	2,055.12	2,075.12
Miscellaneous.			
Sale of photographs,	\$17.70		
" Annals,	91.30		
" sundry publications,	114.90		
Appropriation from University,	5,166.67	5,390.57	
		\$63,125.13	
Received from accumulated income of Funds and Gifts to cover			
deficits of restricted income,		1,536.23	
		<u>\$64,661.36</u>	

OBSERVATORY (CONTINUED)

EXPENDITURE

From Advancement of Astronomical Science Fund (1901).		
Overdraft of Draper Memorial Fund, 1920-21,	\$1,240.26	
From Uriah A. Boyden Fund.		
Services and wages,	\$3,530.88	
Equipment and supplies,	688.95	
Expedition to Jamaica,	3,234.47	
Expedition to Peru,	2,027.46	
Books,	67.28	
Freight, express, customs, etc.,	323.04	9,872.08
From Draper Memorial Fund.		
Administrative and executive expenses,	\$2,000.00	
Services and wages,	2,660.26	
Rent and care of space in building,	2,200.00	
	\$6,860.26	
Less overdraft transferred to Advancement of		
Astronomical Science Fund (1901),	1,240.26	5,620.00
From Gift for publishing lunar photographs,		42.35
From Charles S. Hinchman Fellowship,		453.17
From Edward C. Pickering Fellowship for Women,		500.00
Salaries,	\$14,671.84	
Services and wages,	8,491.43	
Equipment and supplies,	2,366.64	
Stationery, postage, telephone and telegraph,	603.50	
Printing,	670.63	
Binding,	195.72	
Books,	257.82	
Printing Annals,	2,368.01	
Use of house,	90.00	
Freight, teaming, express, etc.	162.97	
Labor on grounds,	1,209.61	
Laundry work,	41.63	
Work on dwelling,	1,767.01	
Sundries,	65.60	
Repairs, buildings,	248.31	
Caretaking and operating expenses, buildings,	2,416.18	
	\$35,626.90	
Less amount transferred to		
Draper Memorial Fund,	4,200.00	31,426.90
University charge.		
Treasurer's Office, care of investments,	\$560.32	
Bursar's Office, collections and payments,	253.36	
Inspector's Office, salary and expenses,	82.13	
Carpenter,	13.72	909.53
		\$50,064.29
Restricted income not used and added to Funds and Gifts,		9,942.16
Surplus of general income added to the Advancement of Astronomical Science (1901) Fund,		4,654.91
		<u>\$64,661.36</u>

BLUE HILL METEOROLOGICAL OBSERVATORY

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of A. Lawrence Rotch Bequest,	\$2,818.64	
“ “ Waldo E. Forbes Fund,	324.00	
Aimée Sargent Bequest,	1,350.00	
Harvard Endowment Fund, Blue Hill Observatory,	270.00	\$4,762.64
Gifts for present use,		1,500.00
Appropriation from University,		600.00
		<u>\$6,862.64</u>
Received from accumulated income of the A. Lawrence Rotch		
Bequest to cover in part the deficit of general income,		2,122.34
Remainder of deficit of general income, Schedule 40,		173.85
		<u><u>\$9,158.83</u></u>

EXPENDITURE

Salary of Director,	\$5,000.00	
Services and wages,	2,345.46	
Equipment and supplies,	304.71	
Stationery, postage, telephone and telegraph,	113.64	
Books,	94.25	
Freight and express,	76.73	
Laundry,	29.15	
Binding,	61.50	
Sundries,	17.09	
Repairs, building,	221.03	
Caretaking, and operating expenses building,	831.77	\$9,095.33
University charge.		
Treasurer's Office, care of investments,	\$51.22	
Bursar's Office, receipts and payments,	12.28	63.50
		<u><u>\$9,158.83</u></u>

MUSEUM OF COMPARATIVE ZOÖLOGY

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds.

Museum of Comparative Zoölogy balance, interest,	\$1,834.56	
Agassiz Memorial,	16,088.38	
Alexander Agassiz Bequest, General Purposes.		
Interest,	\$3,213.00	
Allowance from College to increase income to rate of income of funds in general investments,	2,160.00	5,373.00
Alexander Agassiz Bequest for Publications, .	4,865.12	
George R. Agassiz,	2,700.00	
George R. Agassiz Special Fund,	2,700.00	
Louis Cabot,	300.46	
Virginia Barret Gibbs Scholarship,	407.27	
Gray Fund for Zoölogical Museum,	2,700.00	
Harvard Endowment Fund, Museum Comparative Zoölogy,	54.00	
Humboldt,	484.05	
Willard Peele Hunnewell,	302.67	
Permanent Fund for Museum of Zoölogy,	6,343.33	
Henry L. Pierce, Residuary (part),	4,737.73	
Teachers' and Pupils',	410.08	
Maria Whitney,	377.03	
Maria Whitney and James Lyman Whitney,	34.18	\$49,711.86
Use of lecture rooms by Radcliffe College,	\$700.00	
Sale of publications,	435.22	1,135.22
		<u>\$50,847.08</u>

EXPENDITURE

Alexander Agassiz Bequest for Publications, . . .	\$1,849.57	
Louis Cabot Fund,	100.33	
Virginia Barrett Gibbs Scholarship,	325.00	
Humboldt Fund,	370.00	
Willard Peele Hunnewell Fund,	302.67	
Maria Whitney Fund,	253.54	
Maria Whitney and James Lyman Whitney Fund,	25.25	\$3,226.36
Salaries,	\$13,858.83	
Services and wages,	13,557.98	
Equipment and supplies,	1,072.72	
Amounts carried forward,	\$28,489.53	\$3,226.36

MUSEUM OF COMPARATIVE ZOÖLOGY (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$28,489.53	\$3,226.36
Stationery, postage, telephone and telegraph,	73.23	
Printing,	4,916.92	
Collections and collectors expenses,	120.00	
Books,	223.43	
Binding,	486.46	
Freight, cartage, etc.	190.39	
Laundry work,	77.10	
Sundries,	33.25	
Repairs, building,	600.90	
Caretaking and operating expenses, building,	9,576.75	44,787.46
University charge.		
Treasurer's Office, care of investments,	\$616.50	
Bursar's Office, collections and payments,	186.58	803.08
		<u>\$48,816.90</u>
Less the following items transferred :		
To the College, Schedule 7:		
Heating and service,	\$4,524.75	
Services of librarian,	250.00	
To the University, Schedule 6:	<u>\$4,774.75</u>	
University charge,	803.08	5,577.83
		<u>\$43,239.07</u>
Restricted income not used and added to Funds and Gifts,		3,544.42
Surplus of general income carried to General Suspense,		4,063.59
		<u><u>\$50,847.08</u></u>

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY
AND ETHNOLOGY

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds.

Peabody Museum balance, interest,	\$225.99		
Henry W. Haynes Bequest,	54.00		
Hemenway Fellowship,	732.51		
Mary Hemenway Fund for Archaeology, . . .	2,504.95		
Francis Cabot Lowell Memorial,	54.00		
Peabody Building,	1,531.84		
Peabody Collection,	2,557.10		
Peabody Professor,	2,557.10		
F. W. Putnam Fund.			
Interest,	\$12.74		
Other receipts,	66.00	78.74	
Thaw Fellowship,		1,233.98	
Henry C. Warren Exploration,		603.94	
Susan Cornelia Warren,		270.00	
Robert C. Winthrop Scholarship,		404.08	
Huntington Frothingham Wolcott,		1,149.01	
Harvard Endowment Fund:			
Peabody Museum,	220.70		
Salaries,	64.87		
Subject to order of Professor Tozzer,	111.13		
Henry N. Sweet Fund,	520.70		
Gifts for special use,			
Gifts,	\$2,057.00		
Interest,	22.25		
Other Receipts,	269.52	2,348.77	\$17,222.91
Sale of publications,		\$291.47	
Sale of duplicate books,		182.95	
Miscellaneous receipts,		118.26	592.68
			<u>\$17,815.59</u>
Received from accumulated income of Funds and Gifts to cover			
deficits of restricted income,		5,040.16	
Credit balance in General Suspense used		226.75	
			<u><u>\$23,082.50</u></u>

EXPENDITURE

Harvard Endowment Fund, Peabody Museum Salaries,	\$1,000.02
Harvard Endowment Fund, Henry N. Sweet Fund,	50.00
Harvard Endowment Fund, Subject to order of Pro-	
fessor Tozzer,	2,057.64
Amount carried forward,	<u>\$3,107.66</u>

PEABODY MUSEUM (CONTINUED)

EXPENDITURE

Amount brought forward,	\$3,107.66	
Mary Hemenway Fund,	3,232.10	
Huntington Frothingham Wolcott Fund, speci-		
mens,	697.79	
Hemenway Fellowship,	625.00	
Henry Clark Warren Fund, explorations,	1,186.17	
Robert C. Winthrop Scholarship,	325.00	
Thaw Fellowship,	1,212.99	
Gifts for special use,	3,197.39	\$13,584.10
Salaries,	\$5,673.32	
Museum supplies and incidentals,	341.15	
Freight, express, customs and postage,	333.63	
Telephone, telegraph and messengers,	88.68	
Construction of cases,	406.03	
Photo supplies and prints,	95.63	
Library books bought,	243.94	
Library binding,	171.00	
Library incidentals,	39.36	
Insurance,	28.80	
Publications,	783.62	
Printing,	85.00	
Repairs and equipment, buildings,	242.39	
Caretaking and operating expenses, buildings,	5,617.73	14,150.28
University charge.		
Treasurer's Office, care of investments,	\$174.24	
Bursar's Office, collections and payments,	252.38	
Inspector of Grounds and Buildings, salary and		
expenses,	129.60	
Watchmen,	453.41	
Janitor,	195.88	
Chief Engineer,	108.49	
Carpenter,	21.39	1,335.39
Less amounts transferred.*		\$29,069.77
Repairs, buildings,	\$242.39	
Caretaking, buildings,	5,617.73	
University charge,	1,335.39	7,195.51
		\$21,874.26
Restricted income not used and added to Funds and Gifts,		1,208.24
		<u>\$23,082.50</u>
*The above amounts are transferred as follows:		
90% to University, Schedule 6,	\$6,475.96	
10% to College, Schedule 7,	719.55	
	<u>7,195.51</u>	

SEMITIC MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income from Hecht Fund,	\$108.00	
Income from Teachers' Endowment (part),	2,000.00	
Gifts for excavations in Palestine, interest,	14.69	
Gifts for general purposes, interest,	116.37	\$2,239.06
		<u>\$2,239.06</u>
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,		1,600.06
		<u>\$3,839.12</u>

EXPENDITURE

From gifts for excavations in Palestine,	\$1,275.07	
Gifts for Collections,	329.80	
Gifts for Semitic Museum,	126.25	\$1,731.12
Curator,		2,000.00
Repairs and equipment, building,	\$204.10	
Caretaking and operating expenses, building,	2,210.42	2,414.52
University charge.		
Treasurer's Office, care of investments,	\$25.13	
Bursar's Office, collections and payments,	63.83	
Watchmen,	121.95	
Engineer,	29.18	
Janitor,	105.37	345.46
		<u>\$6,491.10</u>
Less amounts transferred.*		
General expenses,	\$2,414.52	
University charge,	345.46	2,759.98
		<u>\$3,731.12</u>
Restricted income not used and added to Funds and Gifts,		108.00
		<u>\$3,839.12</u>

* The above amounts are transferred as follows :

70 % to University, Schedule 6,	\$1,931.99
30 % to Divinity School, Schedule 13,	827.99
	<u>\$2,759.98</u>

GERMANIC MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts.

Germanic Museum balance, interest,	\$617.17	
Emperor William,	1,422.09	
Germanic Museum,	540.76	
Germanic Museum Endowment,	4,220.10	
Hugo Reisinger Bequest,	3,011.47	\$9,811.59
		<u><u>\$9,811.59</u></u>

EXPENDITURE

General.

Equipment and supplies,	\$157.60	
Dues Archaeological Institute of America,	10.00	
Stationery and postage,	18.95	
Printing,	67.51	
Sundries,	19.17	
Repairs and equipment, building,	482.03	
Caretaking and operating expenses, building, . . .	<u>2,321.85</u>	\$3,077.11

University charge.

Treasurer's Office, care of investments,	\$108.21	
Bursar's Office, collections and payments,	61.38	
Inspector of Grounds and Buildings, salary and expenses,	74.42	
Watchmen,	58.78	
Engineer,	13.06	
Carpenter,	<u>12.28</u>	328.13
		\$3,405.24

Less University charge transferred to University, Schedule 6, . . .	328.13	
		\$3,077.11
Restricted income not used and added to Funds and Gifts and Gifts,	4,427.69	
Surplus of general income carried to General Suspense,	<u>2,306.79</u>	
		<u><u>\$9,811.59</u></u>

WILLIAM HAYES FOGG ART MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts:

William Hayes Fogg,	\$2,723.98	
Gray Fund for Engravings,	896.89	
Harvard Endowment Fund, Fogg Art Museum,	44.33	
William M. Prichard,	817.94	
John Witt Randall,	1,624.32	
Mary R. Searle,	100.01	
Hervey E. Wetzel Bequest,	4,781.10	
Gifts for Museum Equipment and Emergency Fund.		
Gifts,	\$5,025.00	
Other receipts, . . . . .	.63	5,025.63
Gifts for Teaching Equipment Fund,		900.00
Gifts from the Society of Friends of the Fogg Art Museum.		
Gifts,	\$4,665.00	
Interest,	31.18	4,696.18
Gifts for excavations in Greek lands,		
Gifts,	\$10,000.00	
Interest,	63.33	10,063.33
Gifts for purchase of Lockoff fresco,		2,700.00
Gift for purchase of painting by Goya,	6,000.00	\$40,373.71
Sale of photographs, catalogue, etc.,		111.66
		<u>\$40,485.37</u>
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,		24,947.91
Overdrafts against sundry funds and gifts carried to General Suspense,		632.44
		<u><u>\$66,065.72</u></u>

EXPENDITURE

From the following Funds and Gifts:

Gray Fund for Engravings.		
Curator,	\$250.00	
Services,	198.45	
Prints,	1,228.25	\$1,676.70
William M. Prichard, collections,		832.23
John Witt Randall.		
Curator,	\$250.00	
Expenses,	1,454.75	1,704.75
Amount carried forward,		\$4,213.68

WILLIAM HAYES FOGG ART MUSEUM (CONTINUED)

EXPENDITURE

Amount brought forward,	\$4,213.68	
From the following Funds and Gifts (<i>continued</i>).		
Mary R. Searle , books,	132.58	
Hervey E. Wetzel Bequest,	26,355.00	
Gifts for Teaching Equipment,	742.87	
Gifts for Museum Equipment and Emergency Fund,	6,527.01	
Gifts from the Society of Friends of the Fogg Art Museum,	6,005.87	
Gift for purchase of Lockoff fresco,	2,950.00	
Gifts for excavations in Greek lands,	317.08	
Gift for purchase of painting by Goya,	6,000.00	\$53,244.09
General.		
Director,	\$500.00	
Services and wages,	1,829.70	
Equipment and supplies,	357.42	
Stationery, postage, telephone and telegraph,	29.20	
Sundries,	13.96	
Repairs and equipment, building,	187.97	
Caretaking and operating expenses, building,	6,538.11	9,456.36
University charge.		
Treasurer's Office, care of investments,	\$109.87	
Bursar's Office, collections and payments,	288.71	
Inspector of Grounds and Buildings, salary and expenses,	55.61	
Engineer,	43.19	
Watchmen,	180.52	
Carpenter,	9.18	687.08
		\$63,387.53
Less amounts transferred.*		
Caretaking, building,	\$6,538.11	
University charge,	687.08	7,225.19
		\$56,162.34
Restricted income not used and added to Funds and Gifts,		9,903.38
		<u>\$66,065.72</u>
*The above amounts are transferred as follows:		
10 % to University, Schedule 6,	\$722.52	
90 % to College, Schedule 7,	6,502.67	
	<u>\$7,225.19</u>	

APPLETON CHAPEL

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds.

Fund for Religious Services,	\$55.84	
Increase Sumner Wheeler,	2,700.00	
Edward Wigglesworth Memorial,	8,100.00	\$10,855.84
Gifts for current expenses,		2,535.00
Use of organ,		164.93
		<u>\$13,555.77</u>
Deficit met by University appropriation, Schedule 6,		379.86
		<u><u>\$13,935.63</u></u>

EXPENDITURE

General.

Preaching and morning services,	\$4,135.00	
Administrator,	400.00	
Organist and Choir-master,	2,500.00	
Choir,	2,401.00	
Equipment and supplies,	482.90	
Printing,	620.56	
Music,	75.00	
Board of preachers,	90.90	
Work on organ,	654.94	
Decorations at Christmas service,	50.00	
Sundries,	30.18	
Repairs and equipment, building,	111.63	
Caretaking, building,	1,886.86	\$13,438.97

University charge.

Treasurer's Office, care of investments,	\$118.21	
Bursar's Office, collections and payments,	92.80	
Inspector of Grounds and Buildings, salary and expenses,	76.45	
Watchmen,	93.46	
Janitor,	80.76	
Engineer,	22.36	
Carpenter,	12.62	496.66
		<u><u>\$13,935.63</u></u>

PHILLIPS BROOKS HOUSE

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds.

Phillips Brooks House Endowment,	\$567.88	
John W. and Belinda L. Randall,	458.73	
Ralph H. Shepard,	612.57	
Ralph Hamilton Shepard Memorial,	306.13	
Louise E. Bettens,	159.08	
Phillips Brooks House Association Endowment,	4,286.63	\$6,390.52
		<u>\$6,390.52</u>

Received from accumulated income of Funds and Gifts to cover deficits of restricted income,	372.50	
		<u>\$6,763.02</u>

EXPENDITURE

From Louise E. Bettens Fund,	\$446.44	
Phillips Brooks House Association,	4,600.00	
Services and wages,	342.46	
Equipment and supplies,	9.52	
Contribution to Harvard Dames,	50.00	
University teas,	160.06	
Sundries,	9.18	
Repairs and equipment, building,	773.02	
Caretaking, building,	3,454.31	\$9,844.99
University charge.		
Treasurer's Office, care of investments,	\$68.93	
Bursar's Office, collections and payments,	91.82	
Inspector of Grounds and Buildings, salary and expenses,	36.96	
Watchmen,	65.94	
Engineer,	15.78	
Carpenter,	6.10	
Janitor,	56.97	342.50
		<u>\$10,187.49</u>

Less amounts transferred.*

Repairs and equipment, building,	\$773.02	
Caretaking, building,	3,454.31	
University charge,	342.50	4,569.83
		<u>\$5,617.66</u>

Restricted income not used and added to Funds and Gifts,	1,145.36	
		<u>\$6,763.02</u>

PHILLIPS BROOKS HOUSE (CONTINUED)

EXPENDITURE

*The above amounts are transferred as follows:

10% to University, Schedule 6,	\$456.98
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Remainder, divided in proportion to the number of students:	
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College, Schedule 7,	2,593.46
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School of Engineering, Schedule 10,	176.70
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Graduate School of Business Administration, Schedule 11,	364.96
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Schools of Architecture, Schedule 12,	54.50
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Divinity School, Schedule 13,	43.86
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Law School, Schedule 14,	779.46
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Graduate School of Education, Schedule 15, . .	99.91
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	<u>\$4,569.83</u>
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SCHEDULE 35

HEMENWAY GYMNASIUM, FRESHMAN ATHLETIC BUILDING, UNIVERSITY SQUASH COURTS AND BIG TREE SWIMMING POOL

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Fees for the use of

Lockers, by students,	\$4,503.00	
Gymnasium, by graduates,	10.00	\$4,513.00

Deficit transferred to the following departments in proportion to the number of students:

College, Schedule 7,	\$13,482.77	
Engineering School, Schedule 10,	675.81	
Graduate School of Business Administration, Schedule 11,	1,395.83	
Schools of Architecture and Landscape Architecture, Schedule 12,	208.43	
Divinity School, Schedule 13,	167.37	
Law School, Schedule 14,	2,981.15	
Graduate School of Education, Schedule 15, . . .	382.12	19,293.48
		<u>\$23,806.48</u>

EXPENDITURE

Services and wages,	\$131.00	
Equipment and supplies,	1,654.49	
Telephone,	108.16	
Printing,	47.18	
Repairs, buildings,	3,833.21	
Caretaking, buildings,	17,037.78	
Sundries,	20.34	\$22,832.16
University charge:		
Bursar's Office, collections and payments,	\$288.22	
Inspector of Grounds and Buildings, salary and expenses,	67.87	
Watchmen,	489.83	
Engineer,	117.20	
Carpenter,	11.20	974.32
		<u>\$23,806.48</u>

SCHEDULE 36

STILLMAN INFIRMARY

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds and Gifts.

Robert Charles Billings, for Stillman Infirmary,	\$3,270.02	
Free Bed Fund of the Class of 1868,	344.36	
Free Bed Fund for the Stillman Infirmary,	35.26	
Herbert Schurz Memorial Free Bed Fund,	250.18	
Stillman Infirmary Gift, interest,	596.86	
Joseph and Lucius Tuckerman Free Bed,	540.00	
Henry P. Walcott,	173.02	\$5,209.70

Receipts from Students.

Infirmary annual fees,	\$2,612.00	
Receipts from patients,	5,094.89	7,706.89

Receipts to replace amounts not charged students who pay the increased tuition fee:

College. Schedule 7,	\$11,664.00	
School of Engineering, Schedule 10,	892.00	
Graduate School of Business Administration.		
Schedule 11,	1,752.00	
Schools of Architecture and Landscape Architecture.		
Schedule 12,	236.00	
Law School, Schedule 14,	1,564.00	
Graduate School of Education, Schedule 15,	180.00	16,288.00
		<u>\$29,204.59</u>

Received from accumulated income of Funds and Gifts to cover deficits of restricted income,

121.71

Deficit met by University appropriation, Schedule 6,

6,972.63

\$36,298.93

EXPENDITURE

Services and wages,	\$14,419.57	
Equipment and supplies,	11,321.41	
Stationery, postage, telephone and telegraph,	248.24	
Printing,	104.94	
Sundries,	73.16	
Repairs and equipment, buildings,	890.13	
Caretaking, land and buildings,	8,020.68	\$35,078.13
Books and bookcases, Mrs. Albert J. Lyman Gift,		121.71
University charge.		
Treasurer's Office, care of investments,	\$56.60	
Bursar's Office, collections and payments,	202.79	
Amounts carried forward,	\$259.39	\$35,199.84

STILLMAN INFIRMARY (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$259.39	\$35,199.84
Medical Adviser, salary and expenses,	750.00	
Inspector of Grounds and Buildings, salary and expenses,	41.81	
Engineer,	40.15	
Carpenter,	6.90	
Purchasing Agent, . . . . .	.84	1,099.09
		<u>\$36,298.93</u>

SCHEDULE 37

HARVARD UNION

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Income of Funds.		
Harvard Union Fund,	\$2,944.07	
Harvard Union Class 1878 Fund,	525.10	
Harvard Union Simes Fund,	216.96	\$3,686.13
Receipts for year,		<u>146,850.33</u>
		<u>\$150,536.46</u>

EXPENDITURE

Expenses for year,	\$150,210.40	
Surplus to University, Schedule 6,	326.06	
		<u>\$150,536.46</u>

SCHEDULE 38

HARVARD DINING HALLS

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Receipts for year,	<u>\$499,292.83</u>
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EXPENDITURE

Expenditure for year,	<u>\$499,292.83</u>
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NON-DEPARTMENTAL FUNDS AND GIFTS FOR SPECIAL PURPOSES

INCOME AND EXPENDITURE

For the year ended June 30, 1921

INCOME

Anonymous Fund,	\$5,695.85	
Anonymous Fund No. 4,	17,500.37	
Gifts for Arnold Arboretum Building , interest,	57.65	
J. Arthur Beebe (part),	2,760.77	
Gifts for construction of Boston Lying-In Hospital ,	300,000.00	
Daniel A. Buckeley Fund (part),	2.08	
Bussey Trust (part),	3,777.50	
Gift from the Carnegie Foundation ,	80,040.36	
Class of 1834 Fund ,	143.30	
“ 1853 “	186.01	
“ 1854 “	220.97	
“ 1856 “	747.14	
“ 1857 “		
Interest,	\$308.32	
Other receipts,]	167.63	475.95
“ 1858 “		117.07
“ 1864 “		173.88
Gift for construction and maintenance of Library and Reading Room for the Chemical Department in mem- ory of Frederic Saltonstall Gould , Class of 1875.		
Gift,	\$10,000.00	
Interest,	77.81	10,077.81
Dr. John C. Cutter Bequest (part),	562.28	
Henry Isaiah Dorr Bequest ,	4,250.00	
Paul Dudley Fund ,	285.66	
Germanic Museum Building , interest,	1,914.46	
Godkin Lectures Fund ,	1,117.48	
Gifts for New Gymnasium Building , interest,	500.65	
Harvard Memorial Society ,	106.49	
Harvard Endowment Fund (part),	10,636.24	
Harvard Endowment Fund , Harvard Studies in Comparative Lit- erature ,	89.15	
Harvard Endowment Fund , Josiah Royce Memorial ,	3.08	
Augusta P. Hope Fund ,	212.42	
Ingersoll Lecture Fund ,	435.83	
Horatio King Fund (part),	402.99	
Morris Loeb Bequest ,	25,184.96	
Amount carried forward,	\$467,678.40	

NON-DEPARTMENTAL FUNDS AND GIFTS, ETC. (CONTINUED)

INCOME

Amount brought forward,		\$467,678.40
Thomas G. Mower Memorial (part),	250.00	
James J. Myers Fund,	5,253.98	
William Belden Noble Lectures Fund.		
Interest,	\$1,822.83	
Sales,	9.32	1,832.15
Henry S. Nourse Fund (part),	1,000.00	
John Knowles Paine Fund,	560.25	
Robert Troup Paine ,	3,458.74	
Lectures on Political Economy Fund,	902.50	
Quarterly Journal of Economics.		
Income of John E. Thayer Fund,	\$864.00	
Sales,	4,550.75	
Gift,	160.00	5,574.75
Retiring Allowance Fund,		22,663.58
Josiah Royce Memorial,	528.27	
Wallace C. Sabine Memorial,	4,596.11	
Gardiner Hubbard Scudder Fund,	544.05	
Flavius Searle Memorial,	80.00	
George Smith Bequest,	819.83	
Stoughton Fund (part),	50.75	
Alexander Wheelock Thayer Fund,	360.00	
Gifts for Tropical Medicine Hospital, interest,	250.93	
Ira D. Van Duzee Scholarship Fund,	293.38	
War Activities Fund.		
Interest,	\$547.29	
Other receipts,	1,923.06	2,470.35
Daniel Williams Fund,	957.37	
Sarah Winslow Fund,	260.00	
Woodland Hill Fund, use of laboratory,	1,000.00	
		\$521,385.39
Received from accumulated income of Funds and Gifts to cover deficits of restricted income,		23,608.55
Overdrafts against sundry funds and gifts carried to General Sus- pense,		2,140.17
		<u>\$547,134.11</u>

EXPENDITURE

Anonymous Fund, annuity,	\$5,600.00
Anonymous Fund No. 4, annuity,	15,715.54
J. Arthur Beebe Bequest, expenses of real estate,	2,760.77
Gifts for construction of Boston Lying-In Hospital,	300,000.00
Gift for flagpole on stadium in memory of Dr. Milton Bettman ,	2,602.60
Amount carried forward,	\$326,678.91

NON-DEPARTMENTAL FUNDS AND GIFTS, ETC. (CONTINUED)

EXPENDITURE

Amount brought forward,	\$326,678.91	
Daniel A. Buckley Fund, taxes,		2.08
Bussey Trust (part).		
Annuities,	\$2,000.00	
Taxes,	<u>1,777.50</u>	3,777.50
Gift from the Carnegie Foundation, Retiring Allowances, . . .		80,040.36
Class of 1853 Fund,		344.57
" 1864 " 		167.33
Dr. John C. Cutter Bequest, annuity,		562.28
Henry Isaiah Dorr Bequest, annuity,		4,150.00
Paul Dudley Fund, Dudleian lectures,		161.58
Horace Fletcher Bequest, legal expenses,		100.00
Germanic Museum Building construction,		39.65
Godkin Lecture Fund,		621.16
Harvard Endowment Fund, share 1919-20 and 1920-		
1921 income paid to		
Harvard Alumni Association,	\$20,000.00	
Sundry expenses,	<u>636.24</u>	20,636.24
Harvard Endowment Fund, Harvard Studies in Comparative Lit-		
erature,		505.46
Harvard Memorial Society Fund,		325.00
Augusta P. Hope Fund, annuity,		210.67
Horatio King, annuity,		402.99
Ingersoll Lecture Fund,		404.18
Morris Loeb Bequest, annuity,		21,881.86
Thomas G. Mower Memorial, legal expenses,		250.00
James J. Myers Fund, annuities,		7,000.00
Henry S. Nourse Fund, annuity,		1,000.00
John K. Paine Fund, annuity,		560.25
Lectures on Political Economy Fund,		336.82
Quarterly Journal of Economics,		4,238.50
Retiring Allowance Fund,		13,857.30
Josiah Royce Memorial, annuity,		425.89
Wallace C. Sabine Memorial, Annuity,		5,386.31
Gardiner Hubbard Scudder Fund, annuity,		555.21
George Smith Bequest, annuities,		600.00
Stoughton, expense of real estate,		50.75
Alexander Wheelock Thayer, annuities,		360.00
Ira D. Van Duzee Fund, annuity,		196.22
War Activities Fund.		
American University Union in Europe,	\$489.61	
Expenses of finding employment for former students		
who were members of the U. S. Army,	599.35	
Printing Memoirs of Harvard Dead,	<u>132.74</u>	
Amounts carried forward,	\$1,221.70	\$495,829.07

NON-DEPARTMENTAL FUNDS AND GIFTS, ETC. (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$1,221.70	\$495,829.07
War Activities Fund (<i>continued</i>).		
Expenses War Records Office,	7,703.72	
Office expenses, Commandant of the Field Artillery Reserve Corps,	1,126.43	
Salary, biographer of the Harvard Dead in the war against Germany,	2,000.00	12,051.85
Daniel Williams Fund. Treasurer for Mashpee Indians, . .		650.00
Sarah Winslow Fund.		
Minister at Tyngsborough,	\$121.96	
Teacher at Tyngsborough,	121.96	
Commission on income, credited to University, . .	6.50	250.42
Woodland Hill Fund, Interest on advances,		359.48
		<u>\$509,140.82</u>
Restricted income not used and added to Funds and Gifts,		35,792.66
Restricted income carried to General Suspense to pay overdrafts of former years,		2,131.10
Balances of restricted income carried to General Suspense,		69.53
		<u><u>\$547,134.11</u></u>

SCHEDULE 40

STATEMENT OF THE OPERATING DEFICIT FOR
THE YEAR

1920-21

Deficits :

College,	\$279,014.70
Library,	97,567.27
Engineering School,	39,474.52
Schools of Architecture and Landscape Architecture,	3,383.52
Graduate School of Education,	177.71
Medical School,	16,022.80
Dental School,	39,006.77
Bussey Institution,	10,472.98
Botanic Garden,	2,257.50
Blue Hill Meteorological Observatory,	173.85
	<u>\$487,551.62</u>

Less: University surplus, 149,246.30

Operating Deficit for the year, \$338,305.32

Paid from the unrestricted principal of the following Funds :

Anonymous No. 2,	\$10,000.00
Godfrey L. Cabot,	5,000.00
Charles Church Drew,	62,781.76
Richard W. Foster,	4,000.00
George A. Goddard,	4,000.00
John W. Houston,	1,000.00
A. Paul Keith,	75,064.11
George F. Parkman,	24,000.00
Henry L. Pierce (Residuary),	38,000.00
Richard Black Sewall,	18,459.45
G. E. Walter Ullrich,	5,000.00
Trenor L. Park Bequest,	21,000.00
Edward Wheelwright,	70,000.00

\$338,305.32 \$338,305.32

INDEX OF FUNDS AND GIFTS

A LIST of Funds and Gifts, separated into departmental groups, will be found on pages 92 to 177 inclusive. Each group is arranged alphabetically. Following is a table of the departmental groups, the symbol of each group and the page reference. For example, the Harvard Endowment Fund, by reference to the Index, will be found to have the symbol "U" opposite the name of the fund. By reference to the following table, it will be found that the symbol "U" designates "University," pages 92 to 102, the group in which the Harvard Endowment Fund is alphabetically listed.

SYMBOL	GROUP	PAGE
Arch.	Architecture and Landscape Architecture, Schools of	140-141
A.A.	Arnold Arboretum	164-165
B.H.	Blue Hill Observatory	167
G.B.	Business Administration, Graduate School of	138-140
B.I.	Bussey Institution	164
Cl.	Class Funds	173
C.	College	103-110
C.Be.	College Beneficiary and Loan	126-129
C.F.	College Fellowships	116-117
C.G.	College Gifts for Special Use	110-115
C.P.	College Prizes	129-131
C.S.	College Scholarships	118-126
Const.	Construction Gifts	173
De.	Dental School	162-163
Dv.	Divinity School	141-143
Dv.S.	Divinity Scholarship and Beneficiary	143
Ed.	Education, Graduate School of	146-147
En.	Engineering School	137-138
F.M.	Fogg Art Museum	171
G.M.	Germanic Museum	170
L.	Law School	144
L.B.	Law School Book Funds	145
L.S.	Law School Scholarship, Beneficiary and Prize	145-146
Lib.	Library	131-136
M.	Medical School	148-159
M.F.	Medical School Fellowships	159-160
M.P.	Medical School Prizes	161
M.S.	Medical School Scholarships	160-161
M.C.Z.	Museum of Comparative Zoölogy	168
O.	Observatory	166-167
P.M.	Peabody Museum	169
P.B.	Phillips Brooks House	172
S.M.	Semitic Museum	170
S.I.	Stillman Infirmary	172
S.S.	Summer Schools	131
Sund.	Sundry Funds	174-176
Trust	Trust Funds for Purposes not connected with the College . .	177
U.	University	92-102

Abbot.....	C.S.	Appleton, T. G.	O.
Abbot, J. W. P.	C.	Architecture and Landscape	
Advancement of Astronomical		Architecture, Schools of, Har-	
Science (1901).....	O.	vard Endowment Fund.....	U.
Advancement of Astronomical		Arms, T. M., Gift in memory of..	S.I.
Science (1902).....	O.	Arnold Arboretum Fund.....	A.A.
Aesculapian Club.....	M.	Arnold Arboretum Building Gifts Const.	
Aesculapian Club, Department of		Arnold Arboretum Construction	
Syphilology for research . . .	M.	Gifts.....	A.A.
Aesculapian Club, Travelling		Arnold Arboretum Endowment..	A.A.
expenses.....	M.	Arnold Arboretum, Gift for ex-	
Agassiz, A., Bequest.....	M.C.Z.	penses of trip of E. H. Wilson	
Agassiz, A., Bequest for Publica-		to Australasia.....	A.A.
tions.....	M.C.Z.	Arnold Arboretum, Gifts for gen-	
Agassiz, G. R.	M.C.Z.	eral purposes.....	A.A.
Agassiz, G. R., Special.....	M.C.Z.	Arnold Arboretum, gift for pur-	
Agassiz Memorial.....	M.C.Z.	chase of Bussey Land.....	A.A.
Alford (Professorship).....	C.	Arnold, J.	A.A.
Alford (Scholarship).....	C.S.	Associated Harvard Clubs.....	C.S.
Allen, Thomas J.	C.	Astronomy, Department of, Gifts	
Alumni Directory Office, Gift for		for Apparatus.....	C.G.
expenses.....	U.	Astronomy, Department of, Gift	
Alpha Omega Alpha Gift.....	M.	for Lecture.....	C.G.
Ames.....	L.	Atherton, Percy Lee.....	C.
Ames, Anna C. Memorial.....	B.I.	Atkins Fund for Tropical Re-	
Ames, Anna C. Memorial, Har-		search in Economic Botany,	
vard Endowment Fund.....	U.	Harvard Endowment Fund...	U.
Ames, J. B. (Loan).....	L.S.	Atkinson, Edward.....	C.
Ames, J. B. (Prize).....	L.S.	Atkinson, Edward, Harvard En-	
Ames, O.	Dv.	dowment Fund.....	U.
Ames, R. C.	C.Be.	Austin, D. (College).....	C.
Ames, Samuel.....	L.	Austin, D. (Divinity).....	Dv.
Amory Astronomical Fund.....	O.	Austin, Edward.....	Sund.
Anatomical Museum.....	M.	Austin, Edward (Medical).....	M.
Anatomy, Department of, Gift for		Australasian Expedition.....	A.A.
salary of artist.....	M.	Ayer, A.	Dv.
Anatomy, Department of, Gift for		Bacon, Edward R.	C.F.
expenses.....	M.	Bacteriology, Department of,	
Anatomical Laboratory, Repay-		Gift A.B.C.	M.
ments.....	M.	Bacteriology, Department of, Gift	
Andrews, H. C.	Dv.	H.S.F., assistant for Dr. Bovie.	M.
Anonymous Fund.....	U.	Bacteriology, Department of,	
Anonymous Fund No. 2.....	U.	Gift Dr. W. S. Bigelow.....	M.
Anonymous Fund No. 4.....	U.	Bacteriological Laboratory, Re-	
Anonymous Fund for Library... Lib.		payments.....	M.
Anonymous Gift for Scholarship		Baker, George F. Professorship	
in Harvard College.....	C.S.	of Economics, Harvard En-	
Anonymous Fund in Department		dowment Fund.....	U.
of Theory and Practice.....	M.	Baker, J.	Dv.
Appel, John W., Harvard Endow-		Baker, W. F.	Ed.
ment Fund.....	U.	Balch, Edwin Swift.....	Lib.
Appleton Chapel, Gifts for ex-		Baldwin, W. H., Jr.	Ed.
penses.....	Sund.	Baldwin, W. H., Jr., 1885.....	C.
Appleton Chapel, Gifts for Music Sund.		Band Music.....	U.
Appleton, J. A.	Arch.	Barnard, Caroline M.	U.
Appleton, N.	C.Be.		

Barnard, James and Augusta, Law	L.	Botanic Department	C.
Barnard, J. M. and A., Gift	L.B.	Botanical Museum, Anonymous	
Barringer, E. M.	M.	Gifts	Sund.
Barringer, J. B.	C.	Botanical Museum, Gift for cases	Sund.
Bartlett	C.S.	Botany, Department of, Gift for	
Bartlett, F.	M.	purchase of collections for	
Bartlett, Gordon	M.	Cryptogamic Herbarium	C.G.
Bartlett, Matthew and Mary E.,		Botany, Department of, Gift for	
Memorial	C.S.	expenses of Plant Physiology	C.G.
Bassett	C.S.	Bowditch	C.S.
Beebe, J. Arthur, Bequest	U.	Bowditch, J. I. (Medical)	M.
Belknap, J.	C.P.	Bowditch, J. I. (Observatory)	O.
Bell, Helen Choate	C.P.	Bowditch, N. I.	Lib.
Bemis	L.	Bowdoin	C.P.
Beneficiary Money Returned, Di-		Bowen, Mrs. Francis	U.
vinity School	Dv.	Bowers, H. S. (College)	C.P.
Bennett, J. G.	C.P.	Bowers, H. S. (Fogg Museum)	F.M.
Bennett, P. S.	C.P.	Boyden, U. A.	O.
Bermuda Biological Station	C.G.	Boylston	C.
Bettens, Louise E. (College)	C.	Boylston Prize	C.P.
Bettens, Louise E. (Phillips Brooks		Boylston, W. N. (Books)	M.
House)	P.B.	Boylston, W. N. (Prize)	M.P.
Bettman, Dr. Milton, Gift in		Bradford, E. H.	M.F.
memory of, for Flag pole on		Bradford, S. D.	U.
Stadium	Const.	Bradley, W. L.	A.A.
Bigelow	C.S.	Brattle, W.	C.Be.
Bigelow, A.	Ed.	Brewster, C. O.	C.
Billings, L. F.	M.S.	Bright (Book)	Lib.
Billings, R. C. (Arnold Arbore-		Bright (Scholarship)	C.S.
tum)	A.A.	Bright Legacy	Sund.
Billings, R. C. (Gray Herbarium)	C.	Brimmer, M.	U.
Billings, R. C. (Medical)	M.	Brinckerhoff	M.
Billings, R. C. (Prize)	Dv.S.	Brooks House, Phillips, Associa-	
Billings, R. C. (Stillman Infir-		tion Endowment	P.B.
mary)	S.I.	Brooks House, Phillips, Endow-	
Biological-Chemical Laboratory,		ment	P.B.
Repayments	M.	Brown, A.	L.S.
Blake, S.	E.	Brown, A. (Scholarship)	C.S.
Blake, S. P. and R. P., Memorial	U.	Brown, J. B. and B.	M.
Blanchard, C. F.	U.	Brown, W. C., Jr.	L.S.
Blanchard, J. A.	C.	Browne	C.S.
Bliss, Mrs. W. H.	B.I.	Browne, John White	M.S.
Blue Hill Observatory, Gifts		Bryant, J. D.	De.
for current expenses	B.H.	Buckley, D. A.	C.Be.
Blue Hill Observatory, Harvard		Buckminster, M. W.	C.S.
Endowment Fund	U.	Buckminster, W. J.	C.S.
Blume, Andreas, Bequest	L.	Bullard Professorship of Neuro-	
Bolles, F., Memorial	C.Be.	pathology	M.
Book Fund of the Class of 1881	Lib.	Bullard, K. E.	M.
Books, Sundry Gifts	Lib.	Bureau of Business Research,	
Boott, F.	C.P.	American National Retail	
Boott, Income for Books	Lib.	Jewelers' Assn.	G.B.
Borden	C.S.	Bureau of Business Research,	
Boston Lying-in Hospital	Const.	National Retail Shoe Dealers'	
Boston Newsboys	C.S.	Assn.	G.B.

Bureau of Business Research, National Wholesale Grocers' Assn.	G.B.	Cancer Commission, Gift Franklin W. Moulton	M.
Bureau of Business Research Pub- lication	G.B.	Cancer Hospital New Laboratory Fund	M.
Bureau of Business Research, Retail Dry Goods Research ..	G.B.	Cancer Hospital Proctor Main- tenance	M.
Bureau of Business Research, Textile Research	G.B.	Cancer Hospital Research	M.
Burr	C.S.	Carnegie Foundation Retiring Allowance	Sund.
Burr, F. H.	C.S.	Carter, J. C. (Law)	L.
Burr, R. D.	Dv.	Carter, J. C. (University)	U.
Burrell, H. L.	M.	Carter, J. C., Loan	L.S.
Business School Alumni Loan ..	G.B.	Carter, J. W.	U.
Business School Anonymous Loan	G.B.	Cary, T.	Dv.S.
Business School Deficit	G.B.	Castle, W. R.	Lib.
Business School Endowment	G.B.	Chapman, G.	Dv.S.
Business School Loan	G.B.	Chapman, V. E., Mem.	C.F.
Business School Publication	G.B.	Chase, Daniel L. F.	U.
Bussey (Arnold Arboretum)	A.A.	Chase, Percy, 1888, Mem'l, Har- vard Endowment Fund	U.
Bussey Institution Endowment ..	B.I.	Cheever, D. W.	M.S.
Bussey Institution, Gift for ex- perimental garden	B.I.	Chemistry, Department of, Gift in memory F. S. Gould for Library	Const.
Bussey Institution, Gifts for Forestry	B.I.	Chemistry, Department of, Anon. Gift for Research, Wolcott Gibbs Laboratory	C.G.
Bussey Institution, Gifts for Forestry Department Labora- tory	B.I.	Chemistry, Department of, Har- vard Endowment Fund	U.
Bussey Institution, Harvard Forest, Harvard Endowment Fund	U.	Chemistry, Department of, Sal- aries and Equipment, Harvard Endowment Fund	U.
Bussey Institution, Books for Library, Harvard Endowment Fund	U.	Child, F. J., Memorial	Lib.
Bussey Institution, Gifts for Salaries	B.I.	Chinese Students, Gift for	C.Be.
Bussey Professorship (Divinity) ..	Dv.	Choate, J. H., Mem. Fellowship ..	C.F.
Bussey Professorship (Law)	L.	Choate, R. S.	C.S.
Bussey Trust	Sund.	Clapp, Howard Rogers	C.S.
Buttrick, A. W.	Dv.S.	Clapp, J.	Dv.
Byerly, William Ellwood, Loan ..	C.Be.	Clapp, J. (Scholarship)	Dv.S.
Byrne Professorship	L.	Clapp, Robert P.	Lib.
Cabot, A. T.	M.F.	Clark, George Newhall	C.S.
Cabot, Godfrey L.	U.	Clarke, T. W.	C.S.
Cabot, J. J.	M.F.	Class of 1802	C.S.
Cabot, Louis	M.C.Z.	Class of 1814	C.S.
Cabot, W. C.	C.F.	Class of 1815, Kirkland	C.S.
Cadwalader, J. L.	L.B.	Class of 1817	C.S.
Cadwalader, J. L.	L.S.	Class of 1828	C.S.
Cancer Hospital Endowment	M.	Class of 1834	Cl.
Cancer Hospital, Gifts for current use	M.	Class of 1835	C.S.
Cancer Commission, Gift for Re- search in Genetics	M.	Class of 1841	C.S.
		Class of 1842	U.
		Class of 1844	C.S.
		Class of 1851	Lib.
		Class of 1852, Dana	C.S.
		Class of 1853	Cl.
		Class of 1854	Cl.

Class of 1856.....	C.S.	Class Subscription.....	C.
Class of 1856.....	Cl.	Classical Department (Scholarship).....	C.S.
Class of 1856, Classical Publication Fund.....	C.	Classical Publication Fund of the Class of 1856.....	C.
Class of 1857.....	Cl.	Classics, Department of, Gifts for Department.....	C.G.
Class of 1858.....	Cl.	Classics, Department of, Gift for Classical Library.....	C.G.
Class of 1863.....	C.S.	Cobb, Samuel C.....	C.Be.
Class of 1864.....	Cl.	Codman, E. W.....	C.
Class of 1867.....	C.S.	Coggan, John.....	U.
Class of 1868, Free Bed.....	S.I.	Coggin, William Symmes, Mem'l, Harvard Endowment Fund...	U.
Class of 1877.....	C.S.	Colburn.....	M.
Class of 1877, Strobel Memorial..	Lib.	Collamore, Helen (Arnold Arboretum).....	A.A.
Class of 1879.....	M.S.	Collamore, Helen (Dental).....	De.
Class of 1880.....	C.	Collamore, Helen (Gray Herb.) ..	C.
Class of 1881 (Book).....	Lib.	Committee on Economic Research	C.G.
Class of 1881, Twenty-fifth Anniversary Fund.....	U.	Committee of the Permanent Charity Fund, Incorporated ..	M.
Class of 1882.....	U.	Comparative Medicine, School of	M.
Class of 1883.....	C.	Comparative Pathology, Department of, Gift for Investigation of Milk Infections.....	M.
Class of 1883 (Scholarship).....	C.S.	Comparative Pathology, Department of, Gift of Massachusetts Society for Promoting Agriculture.....	M.
Class of 1883, Special Fund.....	C.	Comparative Pathological Laboratory, Repayments.....	M.
Class of 1883, Gift for Trees	U.	Comparative Physiology, Department of, Gift of the Committee of the Permanent Charity Fund, Inc.....	M.
Class of 1884.....	C.	Conant, E.....	U.
Class of 1885.....	C.	Conant, E. (Books).....	Lib.
Class of 1886, Dental Endowment Fund.....	De.	Conant, E. (Divinity).....	Dv.
Class of 1886.....	C.	Condell, C. H.....	C.S.
Class of 1887.....	C.	Constantius.....	Lib.
Class of 1888.....	U.	Converse, E. C.....	G.B.
Class of 1888, Dental Endowment Fund.....	De.	Coolidge, A. C. and C. L. Hay ...	Lib.
Class of 1889.....	U.	Coolidge Prize.....	C.P.
Class of 1890.....	U.	Coolidge, E. E.....	C.Be.
Class of 1891.....	U.	Coolidge, F. S.....	M.S.
Class of 1891, Dental Endowment Fund.....	De.	Coolidge, T. J.....	C.
Class of 1892, Dental Endowment Fund.....	De.	Coolidge, T. J., for Cancer Research	M.
Class of 1892.....	U.	Coolidge, T. J., for Department of Chemistry, Harvard Endowment Fund.....	U.
Class of 1893, Dental Endowment Fund.....	De.	Cotting Gift.....	M.S.
Class of 1893.....	U.	Cotton, T.....	U.
Class of 1894.....	U.	Cowdin, J.....	U.
Class of 1895.....	U.	Crocker, G. G.....	C.
Class of 1895, in memory of George C. Christian.....	U.	Croft, C. B.....	M.
Class of 1896.....	U.		
Class of 1899.....	U.		
Class of 1901, Dental Endowment Fund.....	De.		
Class of 1904, Dental Endowment Fund.....	De.		
Class of 1907, Dental Endowment Fund.....	De.		
Class of 1909, Dental Endowment Fund.....	De.		

Crowninshield	C.S.	Derby, G. and M.	C.S.
Cryogenic Engineering, Gifts for Research	En.	Dermatology, Department of, Harvard Endowment Fund . . .	U.
Cummings, F. H.	Arch.	Dexter, Charles, Memorial	C.F.
Cutler, S. N.	Lib.	Dexter, J.	C.S.
Cutter, J. C.	M.	Dexter Lectureship	Dv.
Cutting, Bayard (Books)	Lib.	Diabetes Mellitus, Anon. Gift for investigation of	M.
Cutting, Bayard (Fellowship) . . .	C.F.	Dillaway, G. W.	C.F.
Cutting, W. Bayard, Jr. (Books) . .	Lib.	Diseases of the Nervous System, Department of, Gift Miss Katherine E. Bullard	M.
Cutting, W. Bayard, Jr. (Fellowship)	C.F.	Diseases of the Nervous System, Department of, Gift Dr. W. N. Bullard for study of Pellagra . .	M.
Dana, Class of 1852	C.S.	Diseases of the Nervous System, Department of, Gift for research in problems relating to epilepsy	M.
Dane (Professorship)	L.	Divinity School Endowment . . .	Dv.
Dane, E. B. in Physics	C.	Divinity School, Harvard Endowment Fund	U.
Danforth, T.	C.Be.	Divinity School, Library Gifts . .	Dv.
Dante	C.P.	Doe, O. W. (College)	C.S.
Davis, Horace	Lib.	Doe, O. W. (Medical)	M.S.
Day, M.	C.Be.	Dorr, G. B.	U.
Dean's Loan Fund	C.Be.	Dorr, Henry I., Chair of Research and Teaching	M.
Degradand, Peter P. F.	Lib.	Dramatic Literature, Department of, Harvard Endowment Fund . .	U.
Degradand, Peter P. F. (Medical) . .	M.	Draper, G.	U.
DeLamar, Joseph R.	M.	Draper Memorial	O.
Denny	Lib.	Draper, Henry, Catalogue, Gift for publishing	O.
Dental School Endowment	De.	Drew, Charles Church	U.
Dental School Endowment, Class of 1886	De.	Dudley, P.	C.
Dental School Endowment, Class of 1888	De.	Duplicate Money (Library)	Lib.
Dental School Endowment, Class of 1891	De.	Duplicate Money (Medical)	M.
Dental School Endowment, Class of 1892	De.	Du Pont, A. I.	C.
Dental School Endowment, Class of 1893	De.	Du Pont Fellowship	C.F.
Dental School Endowment, Class of 1895	De.	Dwight, Thomas, Memorial	M.
Dental School Endowment, Class of 1901	De.	Dwight, Thomas, Memorial, Harvard Endowment Fund	U.
Dental School Endowment, Class of 1904	De.	Eaton	C.
Dental School Endowment, Class of 1907	De.	Economics Department, Gifts . . .	C.G.
Dental School Endowment, Class of 1909	De.	Economics A, Gift for Books . . .	C.G.
Dental School, Gifts for Expenses of Visiting Committee	De.	Economics 2, Book Fund	C.G.
Dental School, Harvard Endowment Fund	U.	Economics, Department of, Gift for Research in Public Finance . .	C.G.
Dental School, Housing Kazanjian Collection, Harvard Endowment Fund	U.	Economics, Department of, Gift for Research in Taxation	C.G.
Dental School, Gift for Scholarship	De.	Economic Research, Committee on	C.G.
Dental School, Gift for expenses of Visiting Committee	De.	Economic Studies, Harvard	C.G.
		Edda Club	C.S.

Eddy, R. H.	U.	Fisher.	C.
Edmands, J. R.	O.	Fisher, G.	L.S.
Education, Graduate School of, Fine Money, Library.	Ed.	Fisher, G. and E. H.	C.S.
Education, Graduate School of, Gift for general uses.	Ed.	Fiske, Lieut. C. H., 3d.	C.S.
Education, Graduate School of, Gifts for instruction of the blind.	Ed.	Fitch, T.	C.Be.
Eliot.	C.	Fitz, S. E.	M.
Eliot, Charles.	Arch.	Flag pole on Stadium, Gift in memory Dr. Milton Bettman.	Const.
Eliot, Charles William.	Ed.	Flattery, M. D.	M.P.
Eliot, Jon. Phillips' Gift.	C.	Flattery Research.	M.
Eliot, W. S.	C.F.	Flynt, E.	C.Be.
Ellery, J.	C.Be.	Flynt, H. (for tutors).	C.
Ellis, C. and L.	Sund.	Flynt, H.	C.Be.
Ellis, C. and L. (Medical).	M.	Fogg Art Museum, Harvard En- dowment Fund.	U.
Ellis, H.	U.	Fogg Art Museum, Gifts for Mu- seum Equipment and Emer- gency.	F.M.
Emerson, G. H.	C.S.	Fogg Art Museum, Gifts from the Society of Friends of the Fogg Art Museum.	F.M.
Emperor William.	G.M.	Fogg Art Museum, Gift for pur- chase of Goya painting.	F.M.
Endicott, William.	M.	Fogg Art Museum, Excavation in Greek Lands.	F.M.
Engineering, Professorship of.	En.	Fogg Art Museum, Gift for pur- chase of copy of Lockoff Fresco.	F.M.
Engineering School, Harvard En- dowment Fund.	U.	Fogg Art Museum, Gifts for Teaching Equipment.	F.M.
English A, Fund.	C.G.	Fogg, W. H.	F.M.
Epstein, Max, Harvard Endow- ment Fund.	U.	Folsom, Charles Follen, Memorial.	M.F.
Erving.	C.	Forbes, Waldo E.	B.H.
Evans, Maria A. (Arnold Arbo- retum).	A.A.	Foreign Graduate Scholarship.	L.S.
Evans, Maria A. (Dental).	De.	Forestry Department Gift.	B.I.
Eveleth, J.	C.S.	Forestry Department Laboratory Gift.	B.I.
Everett, William.	U.	Foster, John.	Sund.
Exhibitions.	C.Be.	Foster, John (Law).	L.S.
Fabyan, G., Foundation for Com- parative Pathology.	M.	Foster, John (Medicine).	M.S.
Fabyan, G., Foundation, Special.	M.	Foster, R. W.	U.
Fall River.	C.S.	Free Bed Fund of the Class of 1868.	S.I.
Farlow, John S., Memorial.	C.	Free Bed Fund for Stillman In- firmary.	S.I.
Farnham, Horace P.	M.S.	Freeman, Caroline S.	De.
Farnsworth, Henry W., Memorial.	Lib.	French, J. D. W.	U.
Farrar, E. (Books).	Lib.	French and other Romance Lan- guages, Department of, Library Gift.	C.G.
Farrar (Scholarship).	C.S.	French and other Romance Lan- guages, Department of, Gift for Experimental Phonetics.	C.G.
Farrington, C. F.	M.	Freshman Loan.	C.Be.
Fay, S. P. P. (1798).	L.S.	Friend, Edwin William, Memorial.	C.Be.
Fechheimer, Nathan, Loan, Har- vard Endowment Fund.	U.	Frothingham.	Dv.
Fenno, L. C.	M.	Fuller, A. W.	Dv.
Fenno, L. C., Memorial Free Bed Fund.	M.	Fund for Permanent Tutors.	C.
Fine Arts, Department of, Gift for photographs.	C.G.		
Fine Arts, Department of, Gift for slides in Drawing Course.	C.G.		
Fines.	Lib.		
Fines Loan.	C.Be.		

Fund for Religious Services	C.	Graduate School of Arts and Sciences, Harvard Endowment	U.
Gambrill, R. A.	C.S.	Graduate School of Arts and Sciences Loan	C.Be.
Gardiner, Memorial, J. H.	Lib.	Graduate School of Business Administration, Alumni Loan	G.B.
Gardner, Francis Lowell, Memorial, Harvard Endowment Fund	U.	Graduate School of Business Administration, Anonymous Loan	G.B.
Gardner, G. A.	C.	Graduate School of Business Administration Deficit Fund	G.B.
Garrison, L. McK.	C.P.	Graduate School of Business Administration Endowment	G.B.
Gaston, William	C.S.	Graduate School of Business Administration, Harvard Endowment Fund	U.
Gay, George W.	M.	Graduate School of Business Administration Loan	G.B.
General Purposes, Gifts for	U.	Graduate School of Business Administration Publication	G.B.
Genetics, Gift for research in	M.	Graduate School of Education, Fine Money, Library	Ed.
Geology, Department of, Gift for Honorarium	C.G.	Graduate School of Education, Gifts for general purposes	Ed.
Geology, Department of, Gift for Lecture	C.G.	Graduate School of Education, Gift for instruction of the blind	Ed.
Geology, Department of, Special Fund in Economic Geology	C.G.	Gray (Engravings)	F.M.
Geology, Department of, Gift for expenses of Visiting Professor	C.G.	Gray, A., Memorial	C.
George, Norman H.	De.	Gray, Asa, Professorship	C.
German, Department of (Books)	Lib.	Gray Herbarium Construction	Const.
Germanic Languages, Department of, Gifts for Books	C.G.	Gray Herbarium, Gifts for current use	Sund.
Germanic Languages, Department of, Harvard Endowment Fund	U.	Gray, J. C.	U.
Germanic Museum (balance)	G.M.	Gray, for Zoölogical Museum	M.C.Z.
Germanic Museum Building	G.M.	Greeley, Samuel S., Bequest	U.
Germanic Museum (Collections)	G.M.	Green, Joshua, Memorial	C.S.
Germanic Museum Endowment	G.M.	Greene, B. D.	C.S.
Germanic Museum, Gift for work of art	G.M.	Greene, Rebecca A.	M.
Gibbs, H.	C.Be.	Greenleaf, Price	Sund.
Gibbs, V. B.	M.C.Z.	Greenleaf, Price, Harvard Endowment Fund	U.
Gibbs, Wolcott, Memorial	C.	Greenleaf, Price, Aid (College)	C.Be.
Gibbs, Wolcott (Scholarship)	C.S.	Greenleaf, Price, Aid (Engin. School)	En.
Glover, J.	C.Be.	Greenleaf, Price (Books)	Lib.
Goddard, George A.	U.	Greenleaf, Price (Library)	Lib.
Godkin Lecture	C.	Greenleaf, Price (Scholarship)	C.S.
Goodwin, C. H.	C.S.	Greenough, F. B.	M.
Goodwin, O., Memorial	C.F.	Gross, Charles, Memorial	Lib.
Goodwin, W. W.	C.F.	Gurney	C.
Gore	U.	Gymnasium, Gifts for new	Const.
Gospel Church	C.	Hale, G. S. and E. S.	C.
Gould, F. S.	Const.	Hale, G. S. and E. S. (Books)	Lib.
Gould, L.	Dv.	Hale, Shelton, Memorial	L.S.
Gove Gift, Freshman Loan	C.Be.	Hall, E. H.	Lib.
Gove, William Henry	C.S.	Hall, Frederic Hilborn	Lib.
Government, Department of, Gift for Books on School Administration	C.G.		
Government, Department of, Gift for Bureau of Research in Municipal Government	C.G.		
Government, Department of, Gift for expenses of Government	C.G.		

Hall, L. J.	Dv.	Harvard Dental Alumni Endow-	
Hall, T.	C.S.	ment.	De.
Hallowell, N. P. '61, Memorial ..	C.S.	Harvard Economic Studies.	C.G.
Hancock, C. L.	Dv.	Harvard Endowment.	U.
Hancock, J. (Professorship)	Dv.	Harvard Endowment Fund (Grad-	
Harding, Selwyn L., Scholarship		uate School of Education)	Ed.
of the Class of 1886.	C.S.	Harvard Engineering Society of	
Harlow, E. A. W.	C.Be.	New York.	En.
Harlow, R. H.	C.Be.	Harvard Engineering Society of	
Harris.	C.F.	New York, Harvard Endow-	
Harris, C.	O.	ment Fund.	U.
Harris, H.	Sund.	Harvard Foundation for Ex-	
Harvard Associated Clubs.	C.S.	changes with French Univer-	
Harvard Club of Boston.	C.S.	sities.	C.
Harvard Club of Buffalo.	C.S.	Harvard Medical Alumni.	M.
Harvard Club of Chicago.	C.S.	Harvard Medical Alumni Gifts. .	M.
Harvard Club of Cincinnati.	C.S.	Harvard Memorial Society	Sund.
Harvard Club of Cleveland.	C.S.	Harvard Oriental Series.	C.
Harvard Club of Connecticut. .	C.S.	Harvard Theological Studies, Gift	Dv.
Harvard Club of Connecticut		Harvard Union.	Sund.
Valley.	C.S.	Harvard Union, Class of 1878. .	Sund.
Harvard Club of Delaware.	C.S.	Harvard Union, Simes.	Sund.
Harvard Club of Fitchburg.	C.S.	Hastings, W.	U.
Harvard Club of Kansas City. .	C.S.	Haven (Divinity).	Dv.
Harvard Club of Long Island. .	C.S.	Haven (Observatory).	O.
Harvard Club of Lowell.	C.S.	Haven, G.	M.S.
Harvard Club of Maryland.	C.S.	Haven, H. A.	Lib.
Harvard Club of Michigan.	C.S.	Haven, J. A.	C.S.
Harvard Graduates of Milton. .	C.S.	Hayden, L. and H.	M.S.
Harvard Club of Nebraska.	C.S.	Hayes, F. B.	Lib.
Harvard Clubs, New England		Haynes Book, Department of	
Federation of.	C.S.	Classics.	C.G.
Harvard Club of New Jersey		Haynes, H. W.	P.M.
(Prize).	C.P.	Hayward, G.	Lib.
Harvard Club of New Jersey		Hayward, J.	O.
(Scholarship).	C.S.	Hecht.	S.M.
Harvard Club of North China. .	C.P.	Hemenway.	P.M.
Harvard Club of Rhode Island. .	C.S.	Hemenway, Mary, for Archae-	
Harvard Club of Rochester.	C.S.	ology.	P.M.
Harvard Club of St. Louis.	C.S.	Herbarium.	C.
Harvard Club of San Francisco		Hersey.	C.
(College).	C.S.	Hersey (Thomas Lee's) Gift.	C.
Harvard Club of San Francisco		Higginson, F. L.	U.
(Graduate Business).	G.B.	Higginson, G.	M.
Harvard Club of Santa Barbara. .	C.S.	Higginson, H. L.	U.
Harvard Club of Seattle.	C.S.	High Voltage Electrical Lab-	
Harvard Club of Somerville.	C.S.	oratory.	C.G.
Harvard Club of Washington,		Hill, Harry H., Memorial, Har-	
D. C.	En.	vard Endowment Fund.	U.
Harvard Club of Western Pennsylv-		Hill, J. J.	G.B.
ania.	C.S.	Hill, J. J. (Professorship).	G.B.
Harvard Club of Worcester.	C.S.	Hilton, W.	C.S.
Harvard Commission on Western		Hinchman, Charles S.	O.
History.	C.G.	Histology and Embryology, De-	
Harvard Dames.	C.Be.	partment of, Anon. Gift for	
		Teaching Fellow.	M.F.

History, Government and Economics, Division of, Gift for Books for Board of Tutors . . .	C.G.	Hutchinson, T.	U.
History 1 Book Fund	C.G.	Hyde, G. B.	U.
History, Department of, Gift Expenses of Harvard Commission on Western History	C.G.	Hyde, G. S.	M.
History, Department of, Gift for lecture by Prof. A. P. Newton	C.G.	Hygiene, Department of, Gift U. S. Inter-departmental Social Hygiene Board	C.G.
History, Special Scholarship in, Department of	C.S.	Industrial Hygiene, Division of, Expenses of Instruction and Investigation	M.
Hoar, E. R.	C.S.	Industrial Hygiene, Division of, Study of Health Conditions in Department Stores	M.
Hoar, L.	C.S.	Industrial Hygiene, Division of, Gift for Publication of Journal of Industrial Health	M.
Hoar, S.	C.S.	Industrial Hygiene, Division of, American Institute of Lead Manufacturers	M.
Hodges (Scholarship)	C.S.	Infantile Paralysis Commission	M.
Hodges, P. C.	B.I.	Infantile Paralysis Investigation	M.
Hodges, R. M.	Lib.	Ingersoll Lecture	C.
Hodgson Prizes	G.B.	Ingraham, Franklin Temple, Memorial	C.S.
Hodgson, Richard, Memorial	C.	Insurance and Guaranty	U.
Hodgson, Richard, Memorial, Harvard Endowment Fund	U.	Jackson Foundation	Dv.S.
Holden, Albert F.	C.	Jackson, G. S.	Lib.
Hollingsworth, Rose	C.	Jackson, H., Endowment	M.
Hollis (Divinity)	Dv.	Jackson Professorship of Clinical Medicine	M.
Hollis (Mathematics)	C.	Japanese Literature Professorship, Gift for (Dept. Philos.)	C.G.
Hollis (Scholarship)	C.S.	Jarvis	Lib.
Hollis, T.	Lib.	Jarvis, L.	U.
Hollis, Thomas (for Treasurer)	U.	Jenks, Robert Darrah, Scholarship	L.S.
Holyoke, E.	C.Be.	Jennings, H.	En.
Homans Memorial	M.	Johnson, William Otis	M.S.
Homer, S.	Lib.	Jones, C. L.	C.S.
Hooper, E. W.	C.F.	Jones, C. M.	M.S.
Hooper, F. H., Memorial Free Bed	M.	Jopling, R. M., Memorial	Lib.
Hooper, S.	M.C.Z.	Jopling, R. M., Memorial, Harvard Endowment Fund	U.
Hope, Augusta P.	C.	Keayne, R.	C.Be.
Hopkins, A. L., Memorial Free Bed	M.	Keith, A. Paul	U.
Hopkins, E.	C.P.	Keith, H. P. (Loan)	M.S.
Houghton, Silas A., Asst. Professorship	M.	Kendall, J. H.	Dv.S.
Houston, John W.	U.	Kendall, N.	Dv.S.
Hubbard, Charles W.	Ed.	Kidder, H. P. (Divinity)	Dv.
Hubbard, T.	U.	Kidder, H. P. (University)	U.
Hudson, John E.	C.	Kimball, B.	C.Be.
Hulton, N.	U.	Kimball, J. C.	Dv.S.
Humboldt	M.C.Z.	King, H.	Lib.
Humphrey, H. B.	C.S.	Kirkland, Class of 1815	C.S.
Hunnewell, W. P.	M.C.Z.		
Huntington Hospital, Gift for assistant to Dr. Bovie	M.		
Huntington Hospital, Gifts for current expenses	M.		
Huntington Hospital, Gifts for salaries	M.		
Huntington Hospital, Gift for salary of technician	M.		

Kirkland, J. T.	C.F.	Library, Harvard Endowment	
Kissinger, John R.	M.	Fund.	U.
Kittredge Anniversary.	Lib.	Library, Gift for Printing, Har-	
Knight, G. A.	C.P.	vard Library Notes.	Lib.
Kuhn, H., Memorial.	M.	Library, Gift for equipment of	
		rest room.	Lib.
Landscape Architecture, School		Lienow, H.	Dv.
of, Harvard Endowment Fund	U.	Lilly, Charles Castner Memorial,	
Lane, F. A.	Lib.	Harvard Endowment Fund ...	U.
Lane, G. M.	C.	Lincoln, S.	C.
Langdell.	L.S.	Lindall, M.	C.Be.
Latin-American Professorship of		Linder, A. H.	M.S.
History and Economics.	C.	Loan, The.	C.Be.
Law School Book.	L.B.	Loan Fund (Graduate School of	
Law School, Gift for books on		Arts and Sciences)	C.Be.
criminology.	L.B.	Locke, Calvin S.	C.
Law School, Endowment.	L.	Locke, H. W.	En.
Law School, Max Epstein Loan,		Lockwood, M. D., Memorial.	M.
Harvard Endowment Fund.	U.	Lodge, G. C. and J. T. Stickney,	
Law School, Gifts for general pur-		Memorial.	Lib.
poses.	L.	Loeb, M.	C.
Law School, Graduate Fellowship,		Longstreth, Morris.	U.
Harvard Endowment Fund.	U.	Lovering, J.	C.
Law School, Harvard Endowment		Lowell (Books).	Lib.
Fund.	U.	Lowell (Botanic Garden).	C.
Law School Library.	L.B.	Lowell, F. C. (Books).	Lib.
Law School Library, Harvard		Lowell, F. C., Memorial (Peab.	
Endowment Fund.	U.	Mus.)	P.M.
Law School Scholarship, Harvard		Lowell, G. E.	C.S.
Endowment Fund.	U.	Lowell, H. N.	M.
Law School Scholarship for first-		Lowell, J. J.	Lib.
year student, Harvard Endow-		Lowery, Woodbury, Memorial ..	C.
ment Fund.	U.	Lyman, A. T.	C.
Law School Scholarship for first-		Lyman, S. B.	C.Be.
year student from Illinois, Har-		Lyman, S. B. (Loan, balance) ..	C.Be.
vard Endowment.	U.	Lyman, S. B. (Loan, L. S. S.) ..	En.
Law School, Sanford Robinson		Lyman, T.	Ed.
Scholarship, Harvard Endow-			
ment.	U.	McCall, C. N.	C.
Lawrence, A.	C.	Mack, M. J. & Jennie, Loan.	LS.
Lawrence, J.	C.	Mack, M. J. and Jennie Mack,	
Lawrence Scientific School Loans		Loan, Harvard Endowment	
Repaid.	En.	Fund.	U.
Leatherbee, G. H.	C.	McIlwain, Robert C.	Ed.
Lecompte, W. A.	M.	McKay, G., Endowment.	En.
Lee, Elliot C.	M.	McLean.	C.
Lee, H.	C.	McMaster, Maria E.	C.
Lee, H., Memorial.	C.F.	Manning, Robert F.	C.S.
Lee, J.	U.	Markoe.	C.S.
Lee, T. (Reading).	C.	Massachusetts Society for Pro-	
Levy, H. M., Loan (College) ..	C.Be.	moting Agriculture.	A.A.
Levy, H. M., Loan (Law)	L.S.	Matchett.	C.
Library Books, Gifts.	Lib.	Mathematics, Department of	
Library, Gifts for equipment.	Lib.	(Books).	C.G.
Library, Special Gifts for ex-		Mathematics Department of, Gift	C.G.
penses.	Lib.	Matthews.	C.S.

May, George O.	G.B.	Mower, Thomas G. Memorial ...	U.
Mears, J. Ewing	M.	Mowlson, Lady	C.S.
Mears, J. Ewing (Scholarship) ...	M.S.	Municipal Government, Gift for	
Medical Library	M.	Bureau	C.G.
Medical Loan Fund, Class of 1879	M.S.	Munroe	C.Be.
Medicine, Department of, Labora-		Munson, I.	U.
tory, Repayments	M.	Murphy, W. S.	Sund.
Medical Alumni	M.	Museum of Comparative Zoölogy,	
Medical Alumni, Gifts	M.	Harvard Endowment Fund ...	U.
Medical Library, Alpha Omega		Music Building Maintenance ...	C.
Alpha Gift	M.	Music Department	C.
Medical Library, Duplicate Book	M.	Music, Department of, Harvard	
Medical Library, Gifts	M.	Endowment Fund	U.
Medical Library, Charles B. Por-		Music Department of, Gifts ...	C.G.
ter Hall	M.	Myers, James J. (College)	C.
Medical School, Anonymous Gift			
for Loans	M.S.	National Cannery Association Gift	M.
Medical School, Harvard Endow-		Naumburg, Elkan (Books)	Lib.
ment Fund	U.	Naumburg, Elkan (Fellowship) ..	C.F.
Medical School, Research, Har-		Neuropathological Laboratory,	
vard Endowment Fund	U.	Repayments	M.
Medical School, Gifts for Salaries	M.	New England Federation of Har-	
Medical School, Gift for addition		vard Clubs	C.S.
to salary	M.	Newgate, J.	C.
Meeker, William H., '17, Scholar-		New Subscription	M.
ship	C.S.	Newsboys, Boston	C.S.
Melvin, James C.	M.	Nichols, George	Lib.
Merriam, C.	Dv.	Nichols, H. G.	C.S.
Merrick	C.S.	Nichols, L.	M.
Merrill, Wainwright, Memorial ..	Lib.	Noble, W. B.	C.
Metallurgical Chemistry, Gift for		Norton, C. E. (Book)	Lib.
Laboratory	En.	Norton, C. E. (Fellowship)	C.F.
Meyer, George von L.	M.	Nourse, H. S. (Graduate School	
Military Science, Department of,		of Education)	Ed.
Gift for developing phototo-		Nourse, H. S. (University)	U.
graphy	C.G.		
Military Science, Gifts for Instruc-		Observatory Endowment	O.
tion in	M.	Observatory, Gift for publishing	
Mills, A.	C.Be.	Henry Draper catalogue	O.
Mineralogy Department of, Gift		Observatory, Gift for Charles S.	
for Expenses	C.G.	Hinchman Fellowship	O.
Mineralogy, Department of, Gift		Observatory, Gift for publishing	
for Microscope	C.G.	lunar photographs	O.
Mineralogy, Department of, Gift		Observatory, Gift for E. C. Pick-	
for working tourmaline deposit		ering Fellowship	O.
in Maine	C.G.	Observatory, Gift for publication,	
Minot, C.	Lib.	Vol. 91, Observatory Annals ..	O.
Minot, C. S.	M.	Observatory, Library, Harvard	
Moir, E. H.	C.	Endowment Fund	U.
Morey	C.S.	Oliver, Henry Kemble	C.
Morgan, Henry T.	U.	Oliver, J. P.	M.S.
Morris, John A. Memorial, Har-		Ophthalmology, Department of,	
vard Endowment Fund	U.	Gift Physiological Optics	M.
Moseley, Julia M.	M.	Osgood, L.	Lib.
Moseley, W. O.	M.	Osgood, L.	C.S.
Moseley, W. O., Jr.	M.F.	Osgood, M.	Lib.

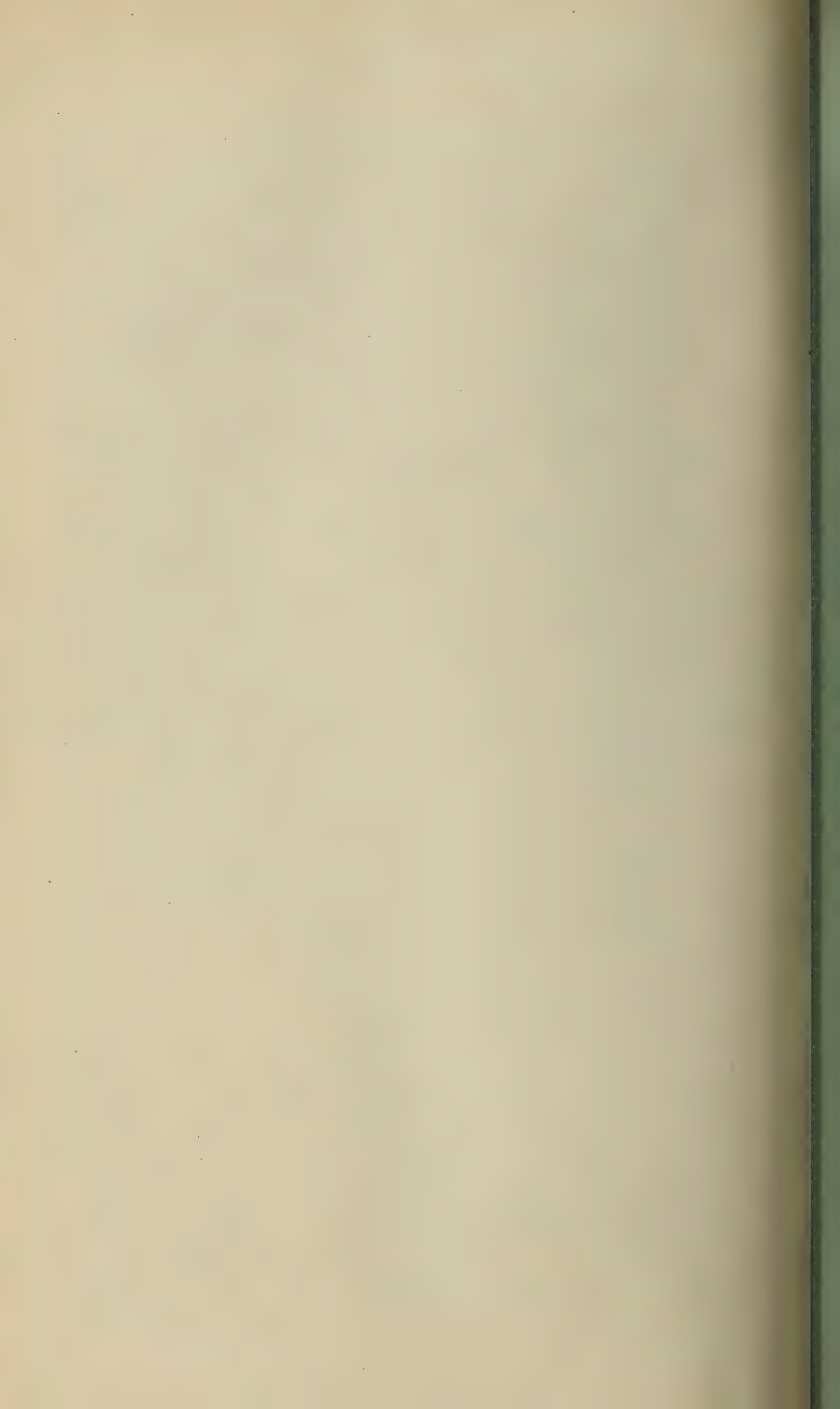
Paine (Professorship)	O.	Permanent	M.C.Z
Paine, J. K.	C.F.	Permanent Charity Fund, Inc., Gift for research	M.
Paine, Robert Treat (Fellowship)	C.F.	Pharmacological Laboratory, Re- payments	M.
Paine, Robert Treat (Observa- tory)	O.	Pharmacology, Department of, U. S. Interdepartmental Social Hygiene Board	M.
Paine, Robert Troup	Sund.	Philadelphia	C.S.
Palestine (Excavations)	S.M.	Phillips, E. B.	O.
Palfrey Exhibition	C.S.	Phillips, J.	C.
Palmer, G. H.	C.S.	Phillips, W., Memorial	C.S.
Park, T. L.	C.	Philosophy, Department of, Books on Eugenics	C.G.
Parker, F. E.	U.	Philosophy, Department of, Phil- osophical Library Gifts	C.G.
Parker, J.	C.F.	Philosophy, Department of, Gift for Professorship of Japanese Literature	C.G.
Parkman (Fellowship)	C.F.	Philosophy, Department of, Gift for Special Use in Psychological Laboratory	C.G.
Parkman, F. (Professorship) . . .	Dv.	Philosophy, Department of, Gift for expenses of publishing Texts in Scholastic Philosophy	C.G.
Parkman, Francis, Memorial . . .	Lib.	Physical Laboratory	C.
Parkman, G. F.	U.	Physics, Department of, Gift for salary of laboratory assistant . .	C.G.
Parkman, G. F. (Books)	Lib.	Physiological Laboratory, Re- payments	M.
Parkman, G. F. (Medical)	M.	Physiology, Department of, Gift for wages of secretary	M.
Pathology, Department of, Har- vard Endowment Fund	U.	Pickering, E. C.	O.
Pathology, Department of, Gift Rockefeller Institute for Medi- cal Research	M.	Pierce, H. L.	U.
Pathology, Department of, Mor- rill Wyman Gift	M.	Pierce, Henry L. (Residuary) (Medical)	M.
Pathological Laboratory Gift . . .	M.	Pierce, H. L. (Residuary) (Uni- versity)	U.
Pathological Laboratory Repay- ments	M.	Physics, Department of, Gift for High Voltage Electrical Lab- oratory	C.G.
Patria Society	C.P.	Physics, Department of, Gift for Storage Battery	C.G.
Payson, C. E., Memorial Free Bed	M.	Pierce, K. C.	De.
Peabody, A. P., Memorial	C.Be.	Plummer	C.
Peabody Building	P.M.	Political Economy, Lectures on . .	C.
Peabody Collection	P.M.	Pomroy, W.	Dv.S.
Peabody, F. G. (College)	C.	Pope	C.
Peabody, F. G. Professorship (Divinity)	Dv.	Porter, C. B.	M.S.
Peabody, G. F.	C.S.	Potter, S. A.	C.P.
Peabody Museum, Gifts for cur- rent use	P.M.	Potter, S. E., Endowment	C.
Peabody Museum, Harvard En- dowment Fund	U.	Pratt, Elnathan	C.S.
Peabody Professor	P.M.	President's	U.
Pediatrics, Department of, T. M. Rotch Professorship	M.	Preventive Medicine and Hygiene, Department of, Gift for Investi- gation of Infantile Paralysis . .	M.
Pearce, B. O.	Lib.		
Pearce, D. H.	C.		
Pearce, J. M.	Lib.		
Pearce, J. M. (Scholarship)	C.S.		
Pennock, Stanley Bagg	C.S.		
Pennoyer	C.S.		
Perkins	C.		
Perkins, C. E.	C.S.		
Perkins, C. E., Memorial	Lib.		
Perkins, R. A.	C.S.		
Perkins, W.	Ed.		

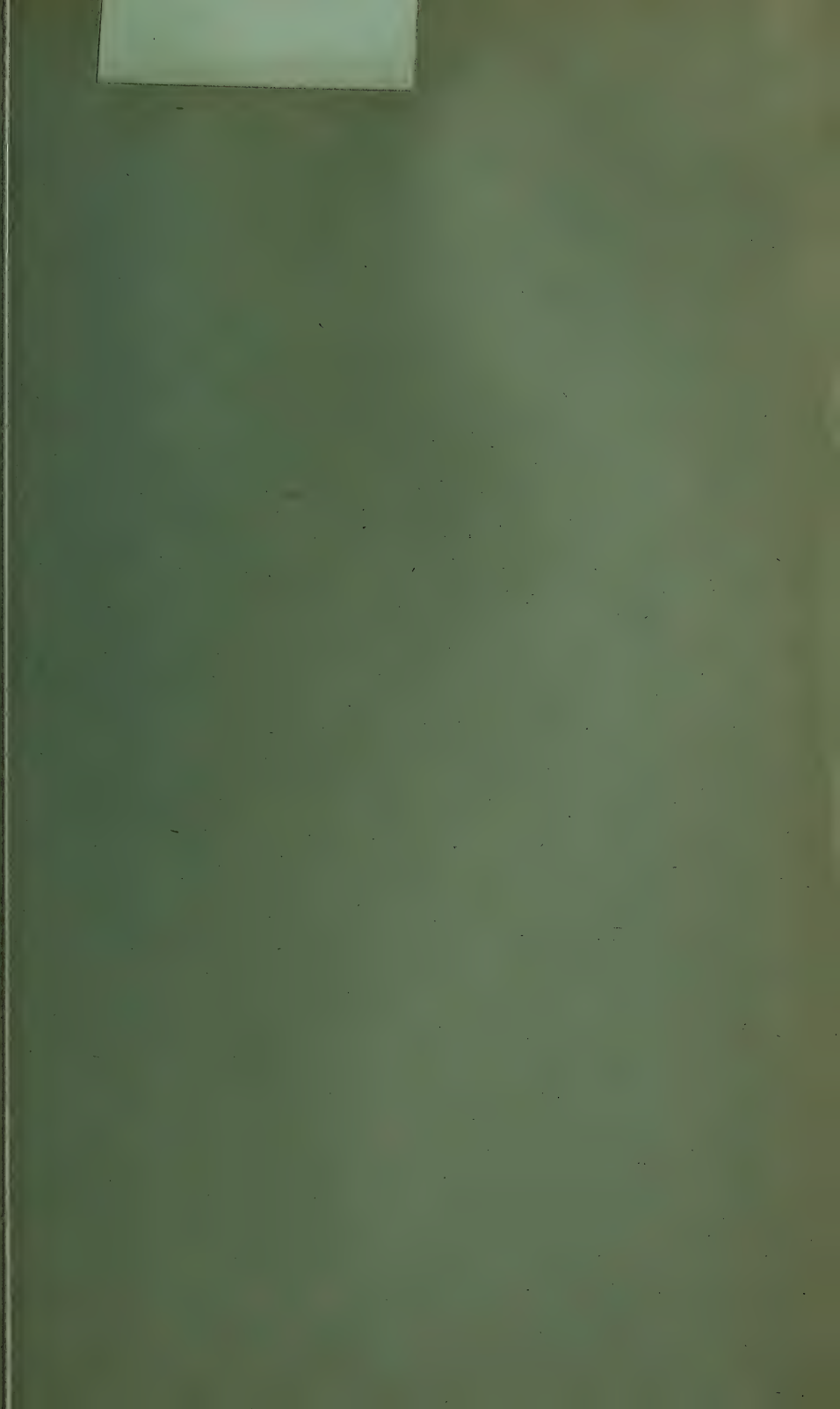
Preventive Medicine and Hygiene, Department of, National Can- ners' Association	M.	Rogers, Ezekiel	Ed.
Preventive Medicine and Hygiene, Department of, Gift for Re- search	M.	Rogers, H. B. (Fellowship)	C.F.
Prichard, W. M.	F.M.	Rogers, H. B., Memorial (Scholar- ship)	C.S.
Princeton	C.F.	Roosevelt Research, Gift for Fel- lowship	C.F.
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Problem Material, Gift for collec- tion of	G.B.	Ropes, N., Jr.	C.S.
Proctor	M.	Rotch, A.	Arch.
Proctor (Dental)	De.	Rotch, A. L.	B.H.
Proctor, Emily J.	M.	Rotch, T. M., Professorship in Pediatrics	M.
Professorship of Engineering . . .	En.	Royall	L.
Professorship of Latin-American History and Economics	C.	Royce, Josiah, Memorial	C.
Publication Fund, Business School	G.B.	Royce, Josiah, Memorial, Harvard Endowment Fund	U.
Putnam, F. W.	P.M.	Rumford	C.
Putnam, Dr. James Jackson, Pro- fessorship	M.	Rumrill, J. A.	C.S.
Quinby, J. W.	Dv.	Ruppaner, Dr.	M.
Quincy, J.	O.	Russell, Daniel	U.
Randall, J. W.	F.M.	Russell, E.	C.S.
Randall, J. W. and B. L.	P.B.	Russell, J. L. (Botanic Garden and Gray Herbarium)	C.
Recreation Grounds (Medical School)	M.	Russell, J. L. (Divinity)	Dv.
Reed, W.	C.S.	Russell, J. L. (Graduate School of Education)	Ed.
Read, William, Harvard Endow- ment Fund	U.	Russell, Mary F.	De.
Reinherz, Julian Henry, Scholar- ship	C.S.	Sabine, Wallace C., Memorial . . .	C.
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Reisinger, Hugo (Germanic Mu- seum)	G.M.	Salary, Professor De Wulf, Har- vard Endowment Fund	U.
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Research Scholarship	L.S.	Sales (Prize)	C.P.
Retiring Allowances	U.	Sales (Scholarship)	C.S.
Revere Family Memorial Fund .	Arch.	Salisbury	Lib.
Ricardo Prize	C.S.	Salisbury, S.	Lib.
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Richmond, A. C.	Dv.	Saltonstall, G.	A ch.
Robinson, N., Jr.	Arch.	Saltonstall, L.	C.S.
Robinson, N., Jr., Additional . . .	C.	Saltonstall, M.	C.S.
Robinson Hall, Gift for changes in Libraries	Arch.	Sanskrit, Department of	C.G.
Robinson, Sanford, Harvard En- dowment Fund	U.	Sargent Aimée	B.H.
Rockefeller Institute for Medical Research (Pathology)	M.	Sargent, J. O.	C.P.
Rockefeller, J. D.	M.	Sargent, Mary Robeson	A.A.
Rodger	C.S.	Sargent, Winthrop	C.P.
Rogers	C.F.	Savage, J.	Sund.
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		Sayles, R. W.	C.
		Sayles, R. W., Summer Course in Geology	S.S.
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		Schofield, William H., Harvard Endowment Fund	U.
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Scholarship Money Returned (Law).	L.S.	Smith.	C.
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School of Tropical Medicine, Harvard Endowment Fund.	U.	Smith, Clement L.	Lib.
Schurz, H., Memorial Free Bed.	S.I.	Smith, D.	C.S.
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Searle, M. R.	U.	Smith, J. W., Jr., Memorial.	De.
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Sears, H. F.	M.	Social Ethics, Department of, Gift for assistant.	C.G.
Sears, Mrs. J. M. (Arnold Arboretum).	A.A.	Social Ethics Fellowship.	C.F.
Sears, J. M., Jr., Memorial.	L.S.	Social Ethics, Department of, Gift for furnishing rooms.	C.G.
Sears, P. H.	C.S.	Social Ethics, Department of, Library Gifts.	C.G.
Sears, Richard.	C.P.	Society of Friends of the Fogg Art Museum.	F.M.
Semitic Building.	Const.	Sohier, G. B.	Lib.
Semitic Library.	C.G.	Sohier, G. B.	C.P.
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Semitic Museum, Gifts for copying Cuneiform Tablets.	S.M.	Southwark Public Library, Gift for binding books, sent to	C.G.
Semitic Museum, Gifts for excavations in Palestine.	S.M.	Spackman, W. M.	C.
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Sever (Scholarship).	C.S.	Spooner, W. B.	Dv.
Sewall.	C.S.	Starr, Dillwyn Parrish, Memorial, Harvard Endowment Fund.	U.
Sewall, J.	C.Be.	Stickney, J.	Arch.
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Sewall, Richard Black (University).	U.	Stillman Infirmary Gift (balance).	S.I.
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Skinner, F. (Medical).	M.		
Skinner, Francis.	M.S.		

Surgery, Department of, X-Ray Apparatus.....	M.	Tufts, Q. (College).....	C.Be.
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Swett, S. W.	M.	United States Interdepartmental Social Hygiene Board.....	M.
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Townsend, M. P.	Dv.	Warren, Fiske.....	U.
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Tropical Medicine, Department of, Gifts for Hospital.....	Const.	Waterhouse, S.	C.
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Widener, Harry Elkins, Memorial, Harvard Endowment Fund.	U.	Wyman, Morrill, Med. Research .	M.
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Wigglesworth, Edward, Professor- ship.	M.	Y. M. C. A. National War Work Council, Gift for scholarship ..	C.S.
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Wilder, E.	C.P.		
Willard.	C.S.	Zoölogy, Department of, Bermuda	
William, Emperor.	G.M.	Biological Station.	C.G.





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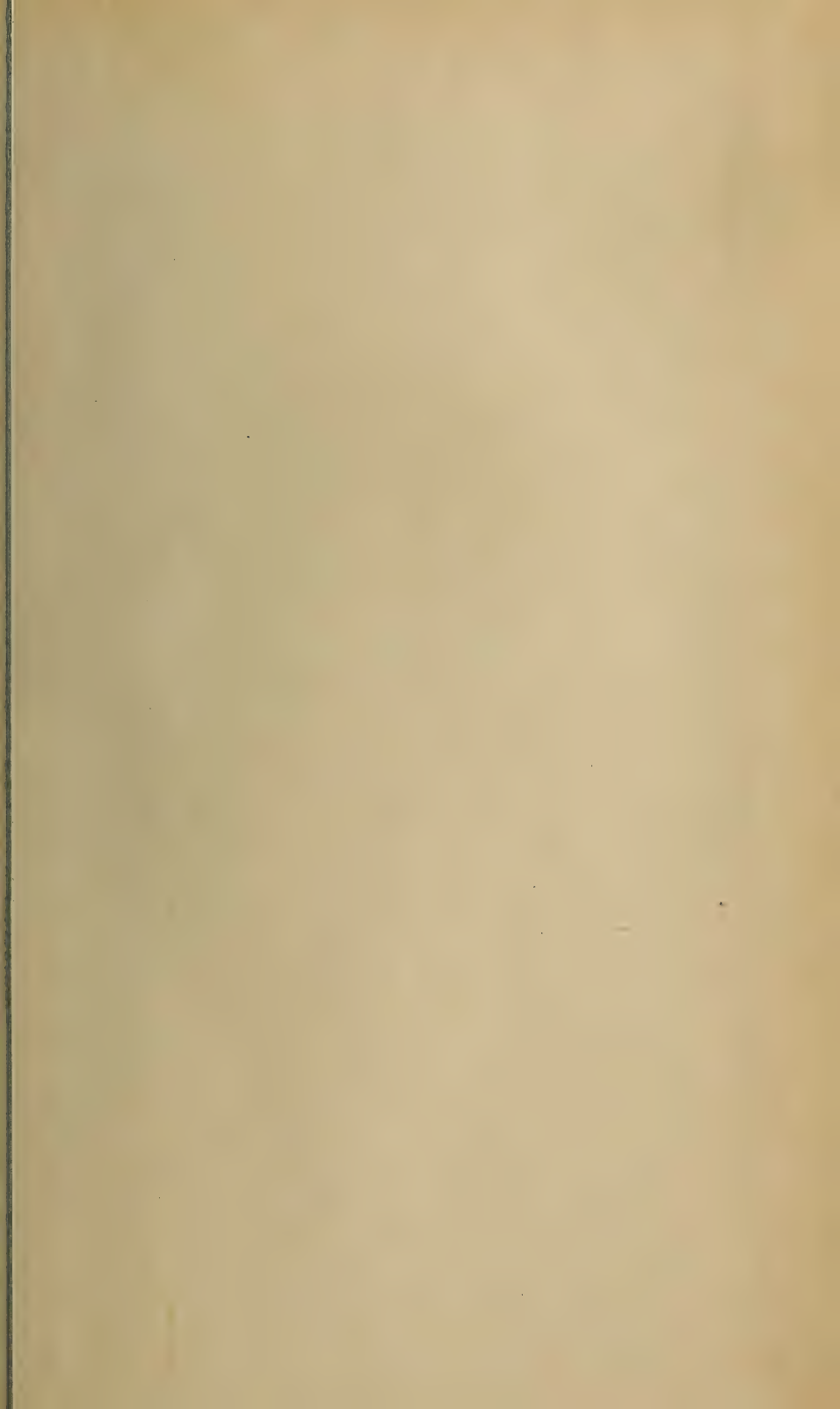
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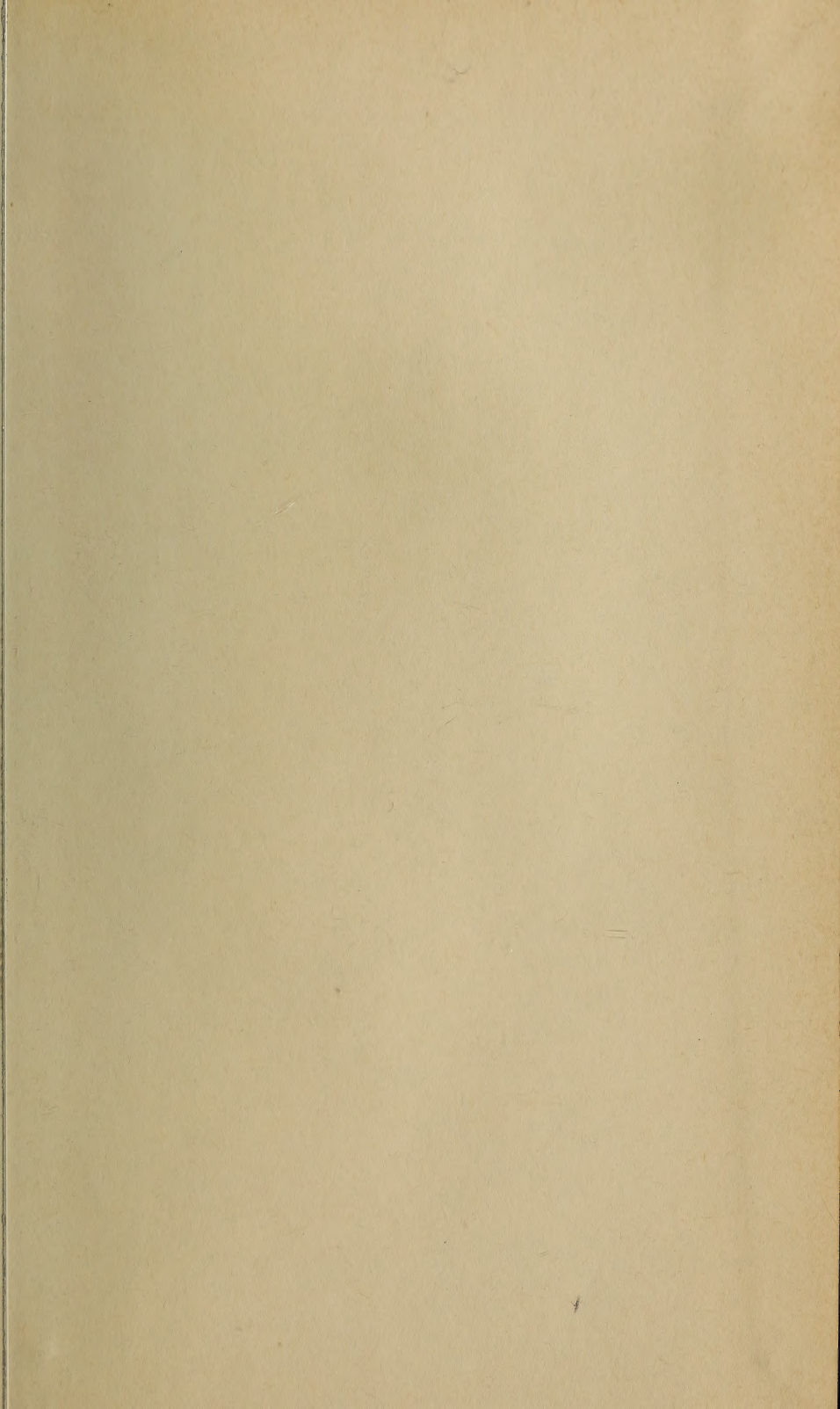
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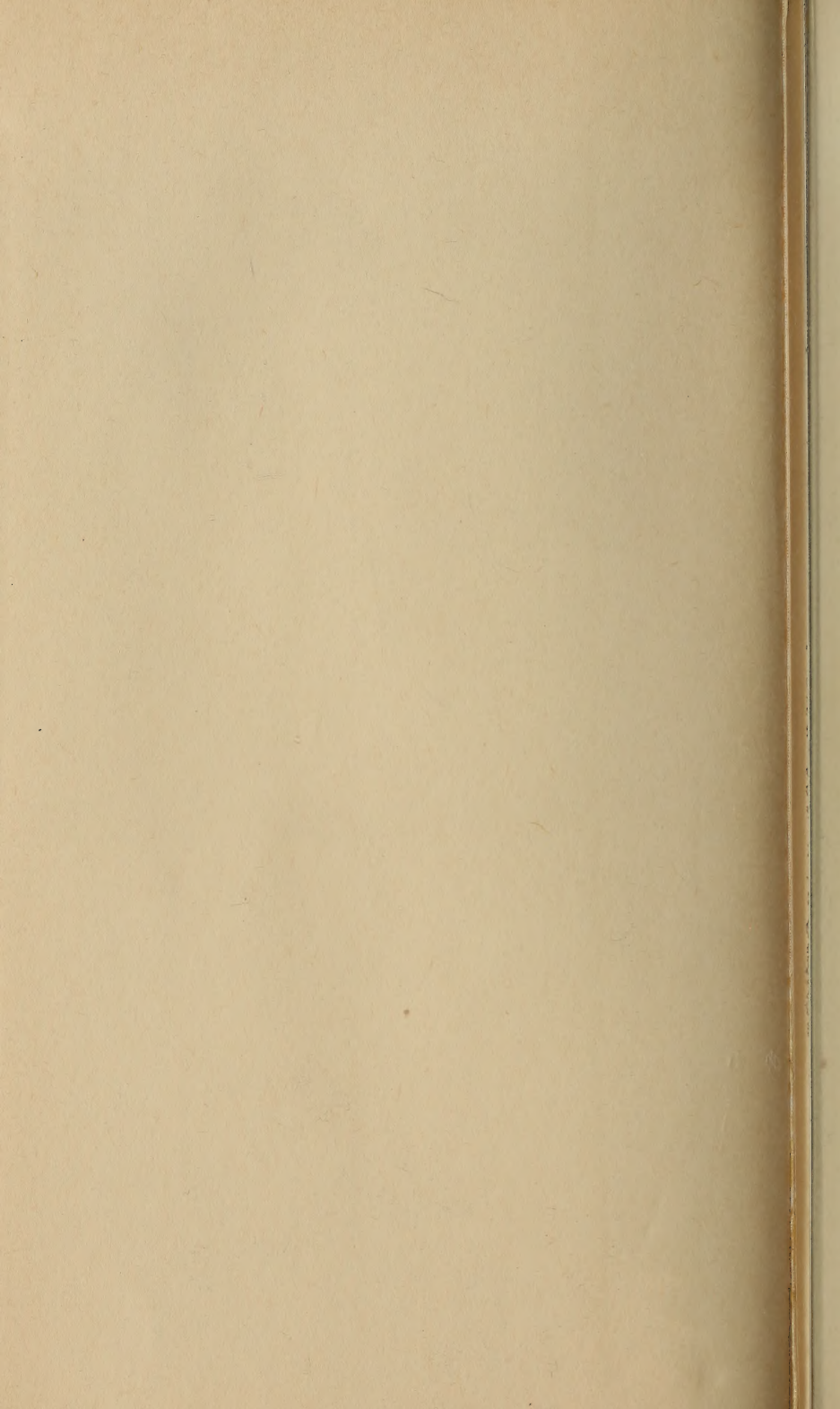
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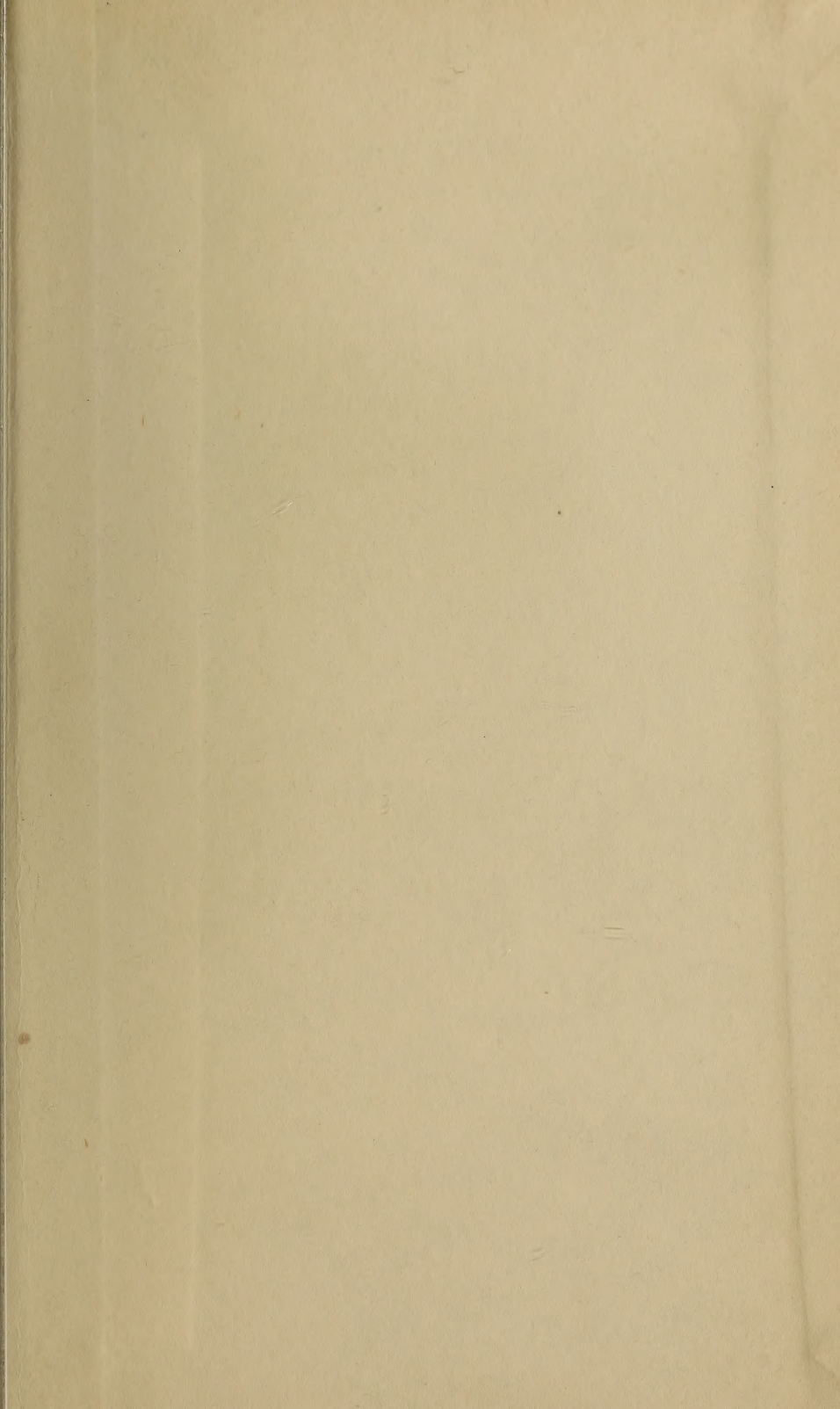
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